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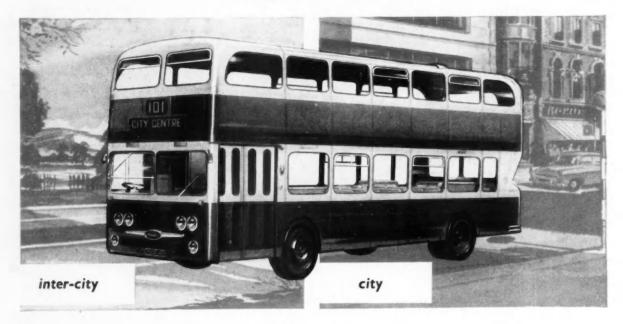
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EASIER MAINTENANCE

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LARGE SEATING CAPACITY 78 seats with flat floor and central gangways in both upper and lower saloons.

Low frame with dropped axles permits high or low bridge body styles.

Step free large wide front entrance in full view of driver who controls the power doors.

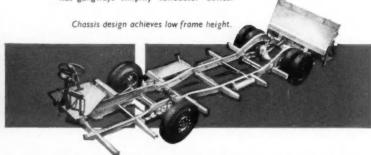
Outstanding fuel economy with high power ensured by the famous Gardner 6LX 150 B.H.P. engine.

Rear-engined power unit gives greatly increased accessibility for maintenance purposes, engine, gear box and auxiliary equipment can be removed independently or complete with sub-frame. Automatic strut type brake adjuster eliminates all shoe adjustment between overhauls.

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Operators log more miles per gallon, more miles per tyre and the lowest running cost per ton mile with Four-in-Line semi-trailers because B.T.C. put more in. Extra thought and skill in designextra strength in the frame, the springs, the coupling-special steels and alloys wherever extra robustness is needed - all these combine to make the Four-in-Line the most popular semi-trailer in the Country with operators and drivers alike. And, in spite of all the other extras-there is still no extra price-unchanged

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Operators' records prove that at least 10% extra M.P.G. is obtained with Four-in-Line equipment.

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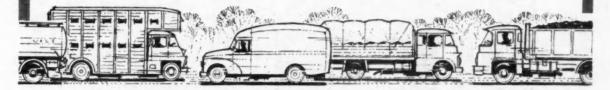
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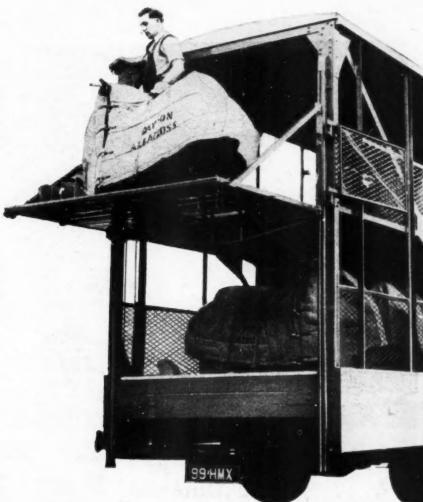
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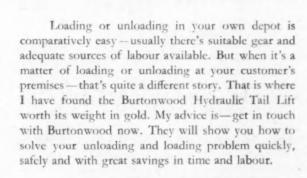
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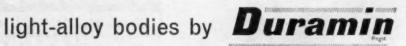
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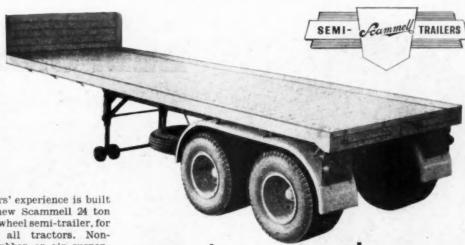
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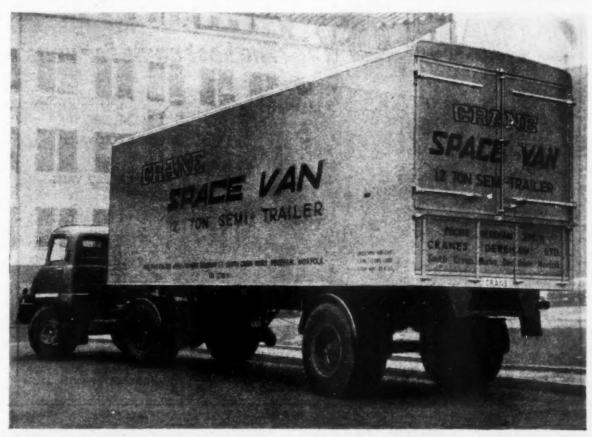
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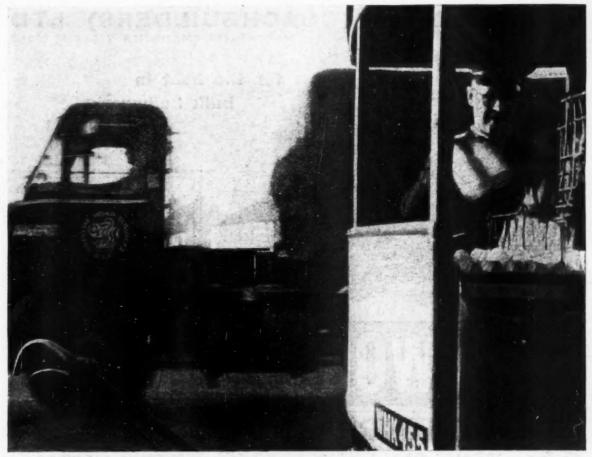
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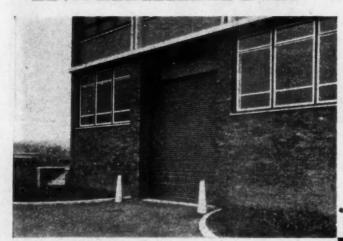


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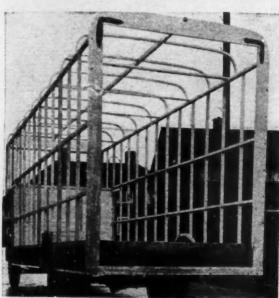


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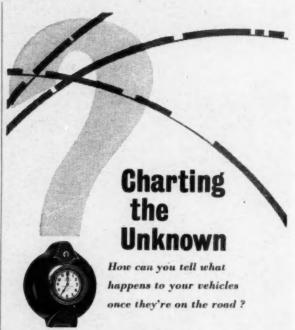
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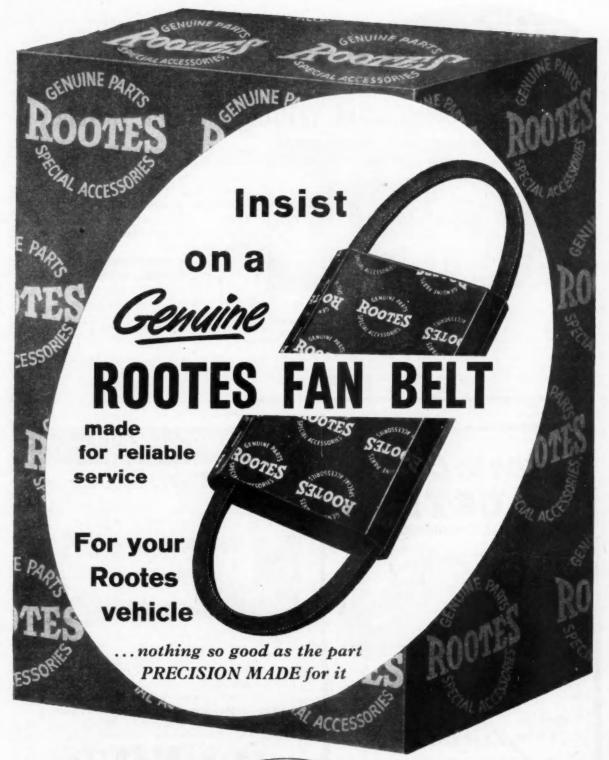


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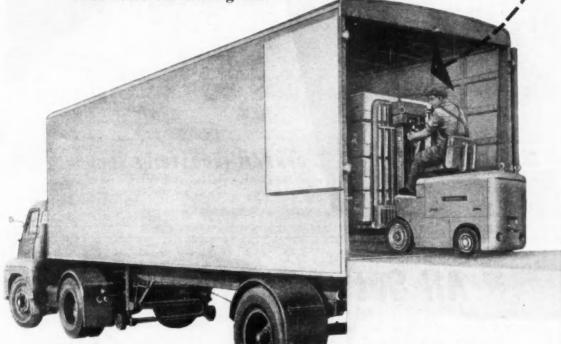
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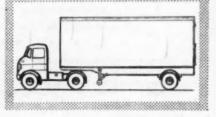
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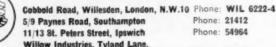
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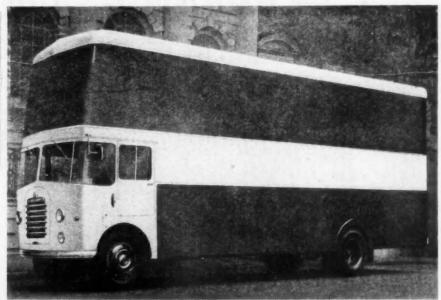
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# INDEX TO ADVERTISERS

Name		Page
A		
A.E.C., Ltd	**	13
Andrews Bros., Ltd.		10
Apaseal, Ltd.		1
Astley Samuel, Leeder & Son		94
Atkinson Vehicles, Ltd.	**	. 60
Austin Motor Co., Ltd., The		Colour 1
8		
Booth, James (Aluminium), Ltd.		Colour 2
Bowyer Bros. (Congleton), Ltd.		22
Boyes. W. J., & Son Ltd		96
Breakdown Section		95
British Road Services		. 23
British Trailer Co., Ltd		. 2
Brockhouse, J., & Co., Ltd		Colour 10
Burgess Engineering Co., Ltd		50
Burgess Products Co., Ltd		. 20
Burtonwood Engineering Co., Ltd.	**	., 17
c		
Carrimore Six-Wheelers, Ltd		11
Commer Cars, Ltd		ent Cover
Cranes (Dereham), Ltd		29
Cummins Engine Co., Ltd.	**	Colour 6
D		
Dagenham Motors, Ltd		94
Darham Industries (London), Ltd.		30
Dayson & Co. (Coachbuilders), Ltd		24
Dispatch Motor Co., Ltd		21
Dunlop Rubber Co., Ltd		
Duramin Engineering Co., Ltd	**	
E		
East Greenwich Garage, Ltd		95
E.R.F., Ltd	**	5
Evans, F. J., Ltd	**	30
Express Motor & Body Works, Ltd		96
much and a second or many and many		27 100

Name			P	age
Ferodo, Ltd	Insid	ie Ba	ck Co	ver
Ferraris of Cricklewood, Ltd	4.			96
Ferraris of Cricklewood, Ltd Firestone Tyre & Rubber Co	Ltd.		Color	er 3
Flexible Lamps, Ltd	ort man			96
Fodens, Ltd			Co'our	12
				100
G				
Gibbs, J., Ltd				28
Girling, Ltd		- 6a	ck Co	ver
Gliksten, J., & Son, Ltd				26
Goodyear Tyre & Rubber Co Ltd. Gun Hill Garage	c. (Grea	t Brit	tain),	
Ltd	4.9	4.6	44	9
Gun Hill Garage		184 1	**	95
Guy Motors, Ltd		4.8	Color	15 7
н				
Hartridge, Leslie, Ltd			7.0	94
Hills Garages (Manchester),	Ltd.			31
Holmes (Preston), Ltd			- 44	7
Holts Shutters, Ltd.		17	**	24
riores silveters, etc				-
ames, Geo. O., Ltd.				28
K				
				20
Keith & Boyle (London), Ltd		**		24
L				
Laystall Engineering Co., Ltd	4			3
				- 7
H				
Mann Egerton & Co., Ltd.		4.0	15 8	
Martin Walter, Ltd				46
Matthews, H., Ltd.	**			94
Mayfair Garage (Tamworth),	Led.			95
Millburn Motors, Ltd				59
Millburn Motors, Ltd Micchell, L. A. (Motors), Ltd				
N	1.4			95
Newcastle (Staffs) Motor Co			**	50
Normand, Ltd				14
North Central Wagon & Fin	iance Co	D., L.	0	14
0				
Olding, Jack, & Co., Ltd.		C	olour	5
manufactured and manufactured.			-	

Name				age
				-8-
Park Garage (Agden), Ltd., Ti	ha			95
Pirelli Isd	100		olour	4
Pirelli, Ltd				58
Powell, Ray, Ltd	he	14	- 4	42
Prailis (Hereford), Ltd		4.4		95
Primrose Group Sales				94
The second secon				
R				
Raybestos-Belaco, Ltd	.79			22
Raybestos-Belaco, Ltd Regent Tyre & Rubber Co., L	td.	Co	lour	11
Renault, Ltd.			**	39
Rootes, Ltd. (Parts & Service)				27
S				
Scammell Lorries, Ltd			+ *	19
Scotts of Nottingham, Ltd.		14		95
Servis Recorders, Ltd				26
Shell-Mex & B.P., Ltd.				6
Simms Motor Units, Ltd.			13	57
Skirden Products, Ltd			lour	8
Sparshatt, J. H., & Sons, Ltd.			nour	12
Steel Company of Wales, Ltd.	The		**	4
steer Company or Trains, Etc		4.4	**	
T				
Taskers of Andover (1932), Lt Tecalemic, Ltd.	d.		48 8	16
Tecalemit, Ltd	2.7	75.	48 8	49
Transport Equipment (Thorn)	rcroft),	Ltd.	2.5	32
Transport Vehicles (Daimler),	Ltd.		_	
	Inside	e Fro	nt Co	VEC
U				
United Motor Finance Corpor	rarian	Led.		25
United Plotor Plilance Corpor	acion.	Liu.	**	20
V				
Vincents of Yeovil, Ltd.				94
		**		
W				
Waste Rubber & Plastics Mer	chants	Ass.	ocia-	
		7		
Westinghouse Brake & Signal	Co., L	td.		96
Weston Works (Birmingham)	Ltd.	**		
Watts of Lydney Westinghouse Brake & Signal Weston Works (Birmingham) Whitehouse Industries, Ltd.	**	**	Color	17 9
Y				
York Trailer Co., Ltd.		11	40 8	41

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# Safety in Numbers

NE of the finest examples of how hauliers can help themselves by co-operation with other hauliers is provided in the formation of a company in the North Western area to offer tipping vehicles to major road contractors on a pooled basis. The whole question of strength through co-operation is one of vital concern at the present time, particularly to small- and medium-sized hauliers, because of intensifying competition and keen rates.

The principle is not a new one. There are in existence today several excellent examples of voluntary banding together on the part of such operators, mainly to provide traffic facilities. Several organizations, some dating from pre-war days, are flourishing (and undoubtedly will continue to flourish) under present-day conditions. They devote themselves largely to acting as clearing houses on behalf of members of the organization. There are also, of course, other possible benefits from the formation of such groups in the shape of bulk purchases of spares and fuel, and of the provision of reputable sub-contractors and fair rates for loads and sub-contracting work.

Economic conditions in the business world of the 1960s militate against the small man and it is true, as a broad generalization, to remark that the majority of hauliers—efficient though they certainly are in their own right—could achieve considerable economies if they were bigger. They do, in fact, often have to accept high costs, part-empty running, and so on, that a large organization can avoid. They often, too, have to make do with less-efficient premises and out-of-date handling methods simply because they cannot afford the capital necessary for such buildings and equipment; nor have they the volume of traffic to justify the expenditure that would be necessary to modernize.

On the other side of the picture must be considered the sturdy independence of the average road haulier. Memories of the 1930s are still strong. In fact, many of today's hauliers were bred in those days. The haulier is, and always has been, capable of standing on his own—a quality that has largely resulted in the excellent service the road haulage industry now offers to the country. It is a quality that marks the haulier as a unique, and valuable, businessman. It is a quality that should never be discouraged.

Therefore, the best of both worlds can be obtained by the various forms of mutual help, via a central organization. In the latest instance, the tipper operators concerned not only virtually ensure themselves of remunerative work, but also do a considerable service to haulage generally by helping to keep out the undesirable type of tipper operator who occasionally mars the scene of major public works, painting the reputable majority of hauliers with the bad name he (but certainly not they) so richly deserves.

### Another Threat

THE designating of clearways within urban areas is a comparatively new problem for operators. The protest meeting held in London early this week, at which both hauliers and traders expressed their concern, spotlights the situation. Authorities responsible for keeping traffic (largely private transport) moving at peak hours can see obvious advantages in urban clearways. The Minister has, in fact, said he is thinking of making some 90 miles of them in London.

Urban clearways represent a serious threat to the equilibrium of delivery services. They must be treated as such—and fought vigorously and promptly by all goods vehicle operators.

Walter

# IN THIS ISSUE

- Newcastle's Ambulance Fleet

  pages 148 and 149
- Barrow Haulier's Activities
   Discussed pages 150-152
- Latest Equipment News page 153
- How to Avoid Lifting
   Accidents
   page 154
- Janus Looks at Continental
   Transport page 155
- What Are the Advantages of Alternators? pages 156-159
- A- and B-Licence Applications and Grants pages 162 and 163
- Planning for Profit
  pages 164 and 165

### = NEXT WEEK =

- Trailer Braking Problems Reviewed
- Light Van Road Tested

### Men Who Make

### **Transport**

TWELVE years ago, Mr. Freddie Jeune, who was an engineer and haulier, entered into partnership with a young man of 25 named "Wally" Heymann, with the object of running a small haulage fleet efficiently. The assets, on the face of it, were not particularly impressive. There were three lorries and a small garage in Peckham. But there were intangibles which have played their part in stimulating the growth of a small business into one which, today, is trading at the rate of nearly £2m. a year.

Mr. Jeune is a practical, mechanically minded man. Mr. Heymann, on the other hand, is first and foremost a businessman. It is a combination of talents which has spelt success in letters of gold.

"Wally" Heymann arrived in this country from Germany at the age of 11, beating a pogrom by a short head. He spoke not a word of English. Four years later he matriculated at Maiden Erleigh school, near Reading. The boy had brains. His first job was in the office of a shipping agent but, after a year, he went to a transport firm as a junior clerk. And then came the war.

### War Service

From 1943 to 1947 he served with the Reconnaissance Corps, finally coming to rest in Germany with the rank of squadron quartermaster sergeant. Bi-lingual in German, he was employed on interpretation duties in Berlin, and it was there that he met his wife.

After his war service, Mr. Heymann returned to his former haulage employers and at the age of 25 was appointed transport manager. But he was not the man to be content with a steady and not unprofitable job. He had the urge to paddle his own canoe—to put to his own use all he had learnt, even if it meant taking a chance. In Mr. Jeune he found the ideal working partner.

The Peckham garage became a long-distance transit

### = Bird's Eye View =

# Good Morning, Mr. Marples

GOOD morning, Mr. Marples. Have you got any thoughts on box dimensions for public service vehicles, on simpler records for drivers of small C-licensed vans, on 28-ton-gross eight-wheeled tankers, or on restrictions for abnormal loads? I know your lively brain has lots of thoughts on a pretty indigestible range of subjects, but these four questions are ones that have been kicked around for some time now. And they are, as you know, important subjects to operators and manufacturers.

Nobody seems to have raised violent objections to your proposals for larger P.S.V.s, and some people stand to benefit, so why any delay on that score?

### Simpler Records

A ND how about those simplified records for drivers of small C-licensed vans? The British Road Federation will soon have forgotten when it first put a very sensible plan for this before you. It really is a very long time ago. What is holding that one up?

### 28-ton Tankers

THE fuss over 28-ton gross eight-wheeled tankers is of much longer standing. Mr. Harold Watkinson (how long ago it seems since he was Minister of Transport) was favourably disposed towards them Unaccountably, you suddenly switched the other way round and announced you would have nothing 88

to do with them. You gave as a reason what many operators uncharitably took to be a rail-inspired effort. Many bridges, you said, were not strong enough to take the extra four tons.

Since then, you have been thinking about it again. I wonder what influence a certain survey (non-Ministry) into weight limits on those bridges had on you? Again, there seems no strong, valid reason for refusing to amend the regulations to allow this—so why such a delay?



"Five hundred tons of steel to go today—and you leave us with a 5-cwt. in the yard!"

# Albert Heymann

depot. By hiring and sub-contracting, the business was worth £20,000 a year and it soon became clear that there was little point in letting it rest there. J. and H. Transport Services (Peckham), Ltd., was formed in 1949. With denationalization, the company acquired 48 ex-B.R.S. vehicles and depots were established in Birmingham, Liverpool, Sheffield, Glasgow, Bristol and Manchester.

Today, there are some 150 vehicles, seven subsidiary companies, and a dozen depots in addition to spacious premises at Croft Street, Deptford, from which operations are controlled. It is a company which gives the impression of being very much on the ball. The vehicles, mostly six-and eight-wheelers, are in excellent condition, the traffic office is a hive of industry, and management is enlightened and ever-present. It is a boast of the company that their drivers, averaging £25 per week, are amongst the best-paid in the industry and their conditions could hardly be bettered.

#### **Driving Force**

Much of the driving force behind the business is provided by the personality of "Wally" Heymann. Probably he could make an equal success of any other type of business, but it is true to say that there is little he does not appreciate in the industry of his choice. He is a large man of considerable mental and physical energy, in spite of the fact that there were some signs of strain a year or two ago. Ordered by the doctors to take things a little more quietly he has done his best, but in a highly competitive business there is scant opportunity for leisure. In haulage, as in other commercial enterprises, a company cannot rest on its laurels: the board must find new outlets, provide new services, before falling receipts herald the inevitable.

In the case of J. and H. Transport, the very considerable expansion consolidated in the past few years has been achieved without the assistance of a bank overdraft. Nor



From three lorries to £2m, a year-Mr. W. A. Heymann.

have the company been charging "fancy rates," or they would have been out of business long ago. The reserves which have been built up are the result of keen management, efficient operation and sound judgment in planning. And all these things are right up "Wally" Heymann's street.

A business which is working for 24 hours a day perhaps provides fewer opportunities for relaxation for its management than its staff. Mr. Heymann is a very happy man when he can sign the last letters, switch out the light and climb into his 220 Mercedes. His home is in Dulwich and there, with a little bit of luck, he can take the rest the doctors ordered.

I would not say that he is a very "social" type of man. The golf course and the nineteenth are not for him. Nor does he pretend to be the life and soul of the local. His free time is limited and when he has any, he likes nothing more than to spend it with his family. After all, a wife and young girls of 10 and 13 can provide most kinds of entertainment for the jaded parent—from slapstick hilarity to high tragedy. Perhaps because he is essentially a family man, he enjoys the light comedies of the London theatre in preference to the heavy drama of some contemporary playwrights.

#### Sunning and Bathing

Until he received the medical "go slow" warning light, Mr. Heymann was an enthusiastic swimmer. Today, the holiday he most enjoys is taking the family to the South of France and spending a lazy week or two, sunning and bathing and relaxing in the Mediterranean manner. At home, he seeks relaxation of a different kind in playing bridge, and he is, in fact, a formidable player. He is also a vice-president of the Harrow East Conservative Association, and his trade interests include membership of the Road Haulage Association and the Institute of Traffic Administration.

Now only 37, Mr. Heymann has demonstrated a remarkable flair for the business of his choice. He has a capacity for sustained high pressure work and he sees his objectives, both near and distant, with enviable clarity. He is not the man to set his sights too low.—T.W.

#### By The Hawk=

#### Unusual Paperweight

I WONDER if anyone else has such an unusual paperweight as the one which is on the desk of Mr. Clarence Mumford, chairman of W. Mumford, Ltd., Plymouth. The object is a brass hub-cap, which was found by a workman whilst a firm of pipe-laying contractors was at work in Plymouth.

The hub-cap bears the inscription "W. Mumford, Ebrington St., Plymouth," and dates back to the turn of the last century, when Mr. William Mumford founded the business. It is thought to have fallen from a two-wheeled trap and become buried in the roadside.

#### Waiting Cry

CRY from the heart of Mr. Victor J. Pike, when he addressed members of Coventry Rotary Club on the need for better loading facilities in factories which had been enlarged and in which the transport work had increased.

"On average," he said, "it takes six hours to load up a big lorry when it could and should be done in a fraction of that time. There is far too much waiting at factories around here."

Hear, hear!

#### Flat Out

SEEN on the Portsmouth Road last week. One stake-sided lorry piled sky-high with old outer covers. It was parked by the roadside in a clearway stretch. The reason?

A puncture!

# Short-term Grants: Strict Twin-drive Trader Control, Warns Authority

FOLLOWING a ruling by the Transport Tribunal that figures of operations of vehicles granted under short-term licences could be used in support of a subsequent substantive application, a hearing which had been concluded last October, was reopened by the Northern Licensing Authority, Mr. J. A. T. Hanlon, at Carlisle last week. Mr. Hanlon had previously ruled that the figures were inadmissible, when tendered by the applicant, J. Millican (Penton), Limited, of Carlisle, who wanted to add seven vehicles to their fleet. The vehicles would replace seven which were operating under contract A licences.

Mr. B. G. Montgomery, for the applicants, said that only four days after Mr. Hanlon had adjourned his decision in the case, the ruling was given by the Tribunal in an appeal by the B.T.C. against Siddle C. Cook, Ltd.

Mr. Hanlon said he had refused to look at the short-term figures in Millican's case on the same basis that Licensing Authorities had refused to look at that evidence since licensing began. He asked Mr. T. H. Campbell Wardlaw, representing Robsons Border Transport, objecting, what he had to say about the proposal that he should now look at the short-term

#### Admissible Evidence

Mr. Wardlaw said that the Tribunal had categorically stated that such evidence was admissible. He reminded Mr. Hanlon that he had given the ruling not to include the figures in the present case at his, Mr. Wardlaw's, request. "It appears that I was wrong, and, with respect, you are wrong," continued Mr. Wardlaw, Said Mr. Hanlon: "And L.A.'s have

been wrong for the past 28 years, and also lawyers who say 'without prejudice to the substantive application are wrong. in so doing."

Mr. Wardlaw pointed out that there was a difference in that the short-term licence in the case of Siddle C. Cook. Ltd., was granted only after almost a two days' inquiry. It was hotly contested by objectors and was not without prejudice, whereas the short-term grant to Millican's was made ex parte after a short hearing, and no objectors appeared. In view of this, Mr. Wardlaw suggested that Mr. Hanlon should look at the shortterm figures less favourably than if the short-term application had been con-

#### tested, as Siddle C. Cook's had been. Any Discretion?

Mr. Hanlon: "How can I decide how to treat them before I see them?" He wondered whether an L.A. had any discretion at all under the provisions of section 174 of the Act, which stated that the L.A. shall have full power in his discretion to grant or refuse a licence.

Mr. Hanlon said that whilst he did not want it to be thought that he was reviewing the Tribunal's judgment, it was a rather surprising decision which seemed to have come "straight out of the blue." In future, however, the granting of shortterm licences would be very much more strictly controlled to the absolute minimum and would be subject to publication and public inquiry. Only in cases of extreme urgency was there likely to be a grant in future.

Giving his decision, Mr. Hanlon said it was perfectly clear from the evidence that the application was the basis for obtaining return load traffic from Lancashire for West Cumberland Farmers Society. From the figures it was "very obvious" that an advantage could be gained by operating under public A licence instead of under contract A. He thought it was not in the public interest that there should be substantial gains in the right to carry return loads. It was not in the interests of the haulage industry generally, and it was certainly not within the spirit of the Road Traffic Act.

The most he could grant was three vehicles, subject to the surrender of three under contract and an undertaking that Millican's would not add to their contract fleet for a period of 12 months.

# Six-wheeler

A SIX-WHEELED vehicle, based on the Thames Trader 7-ton chassis and cab, and having twin-drive rear axles, is now being built by All Wheel Drive, Ltd., Camberley, Surrey. Transmission and rear axle assemblies and a special frame manufactured by All Wheel Drive, Ltd., are incorporated in the design.

The vehicle is produced only in chassiscab form and can be powered by a sixcylinder oil or petrol engine. Two wheelbases-11 ft. 6 in. and 13 ft. 6in.are available and the maximum gross vehicle weight is 15 tons. Standard tyre equipment is 9.00-20, 10-ply, and optional extras include single or dual heaters, flashing direction indicators and a twin passenger seat.

#### White Paper Talks

LEADERS of the T.U.C. and of unions with members in the transport industry are to seek another meeting with Mr. Ernest Marples, the Minister of Transport, on the Government's plans for transport.

A report on their earlier meeting with the Minister was given at a meeting of the T.U.C.'s nationalized industries committee last week. At a further meeting they hope to get detailed replies to their representations.

#### CITY CLEARWAYS

#### **Big London Protest Meeting**

AT a protest meeting on Monday evening organized by the Kensington Chamber of Commerce, Mr. R. E. G. Brown, the London and Home Counties divisional secretary of the T.R.T.A., said that the proposal to designate the Knightsbridge-Cromwell Road as a clearway was of vital interest to all hauliers operating in London.

It was not a question, he said, of whether the proposals were right or wrong, and it was not entirely a question of whether the effect on trade would be harmful or otherwise; it was an experiment the Minister of Transport was trying out in the city and it indicated the picture for the future. His organization, he said, "violently opposed a loading ban of such strength.'

The clearway, which would probably be established by mid-summer this year, prohibits between 8 a.m. and 10 a.m. and 4.30 p.m. and 6.30 p.m. the stopping of all vehicles except buses anywhere along Brompton Road-Cromwell Road, A4, between Knightsbridge and Chiswick

Loading and unloading bans will apply to all deliveries of goods, and will only be relaxed at certain hours according to a schedule drawn up by the Ministry. or if 24 hours' prior notice were given and the consent of the police obtained by the operator concerned.

Mr. Brown said that the effects of the ban would be to cut down the time available for collection and delivery work, and that the T.R.T.A. were facing the proposals with a good deal of anxiety. He recalled that several years ago a similar ban was proposed for 23 major London streets and that this was bitterly contested by the T.R.T.A. and many other interested parties.

As a result of this challenge an inquiry was called, which lasted for three weeks and produced massive evidence, among other things, of how London gets its food and other goods. He said 60 per cent. of the products were delivered to the shops and hotels by 11 a.m. every morning and it was " a miracle of organization to make this possible."

Mr. Brown said that the proposed ban could mean that the shops would not get their food commodities, or that this "carving out" of two hours of the delivery period might mean that deliveries would have to start at 7 a.m. and not end until midday.

A warning of increased transport costs was given by Mr. R. H. Insoll, secretary of the Road Traffic Committee of the R.H.A., who said that the severe ban might mean increased costs for haulage with a resulting rise in delivery charges. He said that the London peak-hour clearways scheme gave no regard to the needs of loading or unloading and that it constituted a marked departure from the principles set out in 1959 for clearways on trunk roads.



The body of the new B.M.C. pick-up has an interior length of 7 ft. 11 in. and a width of 5 ft. The loading height is 1 ft. 11½ in., and the overall length 13 ft. 3 in.

#### New B.M.C. Pick-ups

PICK-UP versions of the Austin 10-12-cwt, and Morris J.4 vans are announced today by the British Motor Corporation. The new vehicles are priced at £445 in primer finish, compared with £420 for the vehicles in chassis-cab condition. Also announced today are optional versions of the standard vans with side-loading doors. These doors can be incorporated in either side of the van at an extra cost of £12 10s., the sideloading models in primer being priced at

Mechanically, the new pick-ups are

identical to the vans as introduced last September. The all-steel body has a capacity of 75 cu. ft. below the waist line, the ribbed steel floor being 7 ft. 11 in, long and 5 ft. wide. The sides are 2 ft. high, and a canvas tilt can be supplied at extra cost. The bottom-hinged tail-gate is 3 ft. 7 in. wide.

The new pick-up model has an unladen dry weight of 19,4 cwt, and a maximum gross rating of 35.7 cwt. The standard tyres are 5.90-14-in. (six-ply) tubeless, with an option, on export vehicles only, of 6.40-14-in. (six-ply) tubeless equipment.

#### From Westminster

#### Closing an H.P. Loophole BY OUR PARLIAMENTARY CORRESPONDENT

THE House of Commons has given a First Reading to a Bill to ensure that when a vehicle is being bought by hire purchase the fact will be noted on its registration book. Introducing the measure last week, its sponsor, Mr. Fergus Montgomery (Tory, Newcastle East) explained that its object was to close a loophole in the law.

During recent years it had often occurred that a hirer of a vehicle purported to sell it for cash without disclosing the existence of the hire purchase agreement. The vendor was guilty of a criminal offence, for which he could be imprisoned; but that was little compensation to the purchaser, because he could

be sued by the true owner, the hire purchase company, for the return of the vehicle or for the balance outstanding under the h.p. agreement.

Mr. Montgomery pointed out that legally it was no defence for the purchaser to say he bought the vehicle in good faith and without notice of the rights of the true owner.

#### MILLIONS FOR ROADS

OVERNMENT grants of well over GOVERNMENT grants of the first schemes in England and Wales have been

made since 1955. Mr. Ernest Marples, the Minister of Transport, said last week that the total cost of these schemes put forward by highway authorities for the years 1955 to 1960 was about £222 m.

Since then there had been some adjustments to the programme, but so far, added Mr. Marples, he had made grants on schemes costing about 70 per cent. of that total.

#### HOW TO REMOVE THE FUEL TAX

TAX of 14d. on fuel oil for heating A TAX of 130, on the world revenue to would provide enough revenue to remove the whole of the taxation on diesel oil for road passenger transport, said Mr. Harold Wilson in the Commons last week, when Mr. Selwyn Lloyd, the Chancellor of the Exchequer, was once again questioned about his fuel tax policy.

#### ATOM TRANSPORT

THE Ministry of Transport are now preparing regulations to govern the carrying of radioactive materials. Mr. Denzil Freeth, Parliamentary Secretary for Science, said last week that the rules would be based on draft recommendations which had been prepared by the International Atomic Energy Agency,

#### The Bus Pay Dispute

From Our Industrial Correspondent

THE Ministry of Labour took a hand last week in the dispute over pay and conditions of 100,000 provincial busmen employed by private undertakings. At the request of the six unions concerned, Mr. Thomas Claro, the Ministry's chief conciliation officer, saw union leaders at the Ministry.

At an hour-long meeting they warned him that unless negotiations could be resumed there was a possibility of strike action by their members. Mr. Claro assured them that he would consider what action to take and would contact them again later.

His most likely move is to get in touch with the employers and ask them to meet him to present their point of view. If there is any hope at all he will then call the two sides together at the Ministry under his chairmanship.

Such a meeting would seem to present the best hope of avoiding another strike. But Mr. Arthur Townsend, national bus secretary of the Transport and General Workers' Union, admitted after last week's meeting that "it might come to official action in the last analysis."

Meanwhile, the parallel claim for 70,000 municipal busmen is still going through the negotiating machinery, although there has been little progress.

Another meeting of the National Joint Industrial Council for the Road Passenger Transport Industry is to be held shortly. The claim may go to arbitration.

#### DIRECTION INDICATOR REGULATIONS

MINISTRY OF TRANSPORT pro-(Construction and Use) Regulations, as they affect direction indicators—made known on February 19, 1958—have been scrapped. Amended proposals have been circulated. The Ministry asks for comments by April 15.

Because, says the Ministry, of the general trend of European opinion and practice, no justification is seen for the U.K. being too far out of line. A working party of the Economic Commission for Europe is formulating proposals for internationally standardized direction indicator equipment.

Existing regulations, where the new proposals do not supersede them, will form part of the new regulations. It is not proposed at this stage to make the fitting of such equipment compulsory.

#### T.R.T.A. DINNER DATE

THE fifteenth annual dinner of Traders' Road Transport Association is to be held at Grosvenor House, Park Lane, London, W.1, on Monday, May 1. The reception is at 7 p.m. and dinner at

The annual meeting of the London and Home Counties Division will be held at the Criterion Restaurant, Piccadilly, London, on Wednesday, April 26. It will be preceded by the members' lunch.

# Men in the News

MR. L. B. CHAPPELL has been promoted from assistant transport manager to transport and purchase casings manager of Blue Peter Retreads, Ltd.

MR. C. J. PRESTON, a senior sales representative of Joseph Lucas (Export), Ltd., is leaving London on March 6 for a 14-day sales and service visit to Lucas agencies in Tripoli and Benghazi.

MR. DOUGLAS COWLING has been appointed manager of the newly opened branch of Simms Motor Units, Ltd., at 2-4 Cleveland Street, Hull. For the past five years Mr. Cowling has been sales manager of Simms' Sheffield branch.



Mr. John Arthur Croft

MR. W. A. B. Goss, who for many years has represented Yorkshire operators as an advocate before Licensing Authorities and the Transport Tribunal, has been appointed a County Court Judge on the Leeds circuit.

MR. B. C. L. BARTON has been appointed a member of the Transport Users' Consultative Committee for the East Midland Area until May 31, 1962. He is the transport manager for John Player and Sons, Nottingham.

MR. C. D. Morgan, secretary of the British Road Federation, is later this year to take up the appointment of secretary to the Institution of Structural Engineers. His successor at B.R.F. has not yet been appointed. Mr. Morgan became secretary of B.R.F. in 1953. Before that he was for six years secretary of the Institute of Road Transport Engineers.

MR, H. JOYCE has been appointed Passenger Trade Group Secretary of the Transport and General Workers' Union for the Lancashire area. Mr. Joyce, who started as a bus conductor on Lancashire United Transport, Ltd., in 1929, served on the General Executive Council of the union from 1954 to 1957 when he was appointed a full-time officer. B12



HANDING OVER: Mr. W. P. James (right), retiring chairman of the West Midland Traffic Commissioners, presided over his last traffic court at Birmingham last week, and afterwards posed for our photographer with his successor, Mr. John Else.

MR. W. P. JAMES, who has been chairman of the West Midland Traffic Commissioners for the past nine years, took his place as chairman for the last time at the sitting on February 24. He retired last week to take up an appointment as a member of the Air Transport Licensing Board in London.

At his last sitting many people who had appeared before him paid tributes. Mr. G. Beames, of the B.T.C., said that in his experience he had never known a better Traffic Commissioner. "I would go further and compare you to the late Sir William Chamberlain who was selected by the Ministry of Transport to be the first Traffic Commissioner."

He added: "I have not always agreed with your decisions but they have always been given with the greatest of patience."

A solicitor, Mr. J. Foley Egginton told Mr. James: "I would like to offer you my personal thanks for your sympathetic understanding of the difficulties confronting solicitors and for your help in smoothing over these difficulties."

The chairman of the Birmingham sub-area of the Road Haulage Association, Mr. J. Neeley, said that the decisions Mr. James had given during his term of office had always been impartial.

At a Press reception on Monday, Mr. James talked of the first important application that came before him when he took up his duties. "It was a fares application by Birmingham Corporation and I had noticed that there were no adverts on their buses and it was my idea that the transport department started carrying adverts on their buses. This now brings in £90,000 a year," he said.

Successor to Mr. James is Birmingham solicitor, Mr. John Else, who takes up hinew position in April.

Mr. H. C. Tree, joint assistant secretary of the Institute of Transport, has retired after reaching the age limit. He completed more than 35 years' service with the Institute.

MR. JOHN ARTHUR CROFT, deputy chairman and managing director of Crofts Engineers (Holdings), Ltd., Thornbury, Bradford, has been appointed chairman of that company in succession to his father, the late Sir Arthur Croft.

MR. A. E. C. DENT, road motor engineer of the London Midland Region. has retired on reaching the age limit. With a fleet of 16,000 vehicles and 30,000 trailers he was in charge of one of the largest motor fleets in the country. Mr. Dent began his railway career at Swindon in 1911. Between 1944 and 1948 he was a director of Western National Omnibus Co., Ltd., City of Oxford Motor Services. Ltd., and E. G. Holdham, Ltd. (Cattle Hauliers). He has served as a member of the Council of the Public Transport Association and the I.A.E. Research Committee, and also as one of the British Transport Commission representatives on the Council of the Motor Industry Research Association.

Mr. A. Webb, district accountant, Swansea, British Road Services, has been appointed district manager, Gloucester. Mr. Webb joined B.R.S. in 1949.

MR. STUART GORDON has been appointed sales manager of Benhill Motors, Ltd., Vauxhall-Bedford dealers in Sutton, Surrey. He was formerly sales manager of Shaw and Kilburn, Ltd., Luton.

MR. J. A. B. Hibbs has been appointed traffic survey officer of the Eastern Region, British Railways. Mr. Hibbs was joint managing director, Corona Coaches, Ltd., from 1956-58, and managing director and secretary 1958-59. The same year he became group traffic manager, Mulleys Motorways, Ltd., and associated companies—a position he held until 1960.

#### Obituary

WE regret to record the death on February 19 of Mr. Frederick Charles Williams. He joined Martin Walter, Ltd., Folkestone, in 1930 and from 1953 he was manager of the Vauxhall and Bedford parts division. Mr. Williams was 49.

# Resume Denationalization, say N.W. Hauliers

THE existence of British Road Services constituted an appalling danger to the continuance of free enterprise transport should a Socialist government regain power, says a Road Haulage Association North Western (eastern) area committee charged with the task of reporting on local opinion. Hauliers in the area are said to be almost unanimously in support of the reintroduction of denationalization. The

apparent stability of the present Conservative Government and the fact that the British Transport Commission was about to be reorganized means, says a committee statement, that the time is opportune to complete the disposals which were suspended in 1956.

The committee believe that trade and industry feel that the return of haulage to free enterprise would be wholly beneficial to the national interest. Industry would gain by a better and possibly cheaper service. The Exchequer would benefit by not having to foot 'he bill for the losses of nationalized road transport and by not having to provide cheap finance out of the national funds. The Exchequer would also gain from the tax which would develop out of the profit made by the independent hauliers.

The returns in assets of British Road Services over the past eight years had been almost negligible, it is said, and had interest rates been at a commercial level such returns would have been nil.

#### MERCHANDISE CASE " NOT SINISTER '

"I DO not share the view that there are necessarily any sinister implications involved in the Transport Tribunal's decision in the Merchandise Transport case." This was stated by Mr. S. C. Bond, president of the Traders' Road Transport Association, at the annual dinner at Bristol on Tuesday of the Western Division.

On the other hand, Mr. T. D. Corpe. the Bristol solicitor, said he considered it was an unfortunate decision that now allowed a C licence operator to carry return loads. If it proved that many ancillary users wished to do this the existing good relations between them and hauliers would be disrupted.

#### Primrose to Fit Albion Bogie

IT is announced by Primrose Group Sales, Whalley, Lancs, that negotiations have been successfully completed with Albion Motors, Ltd., whereby Primrose will henceforth offer the Albion Reiver bogie for fitting as a conversion to all suitable four-wheeled chassis,

The Reiver bogie is available as a single- or double-drive unit, and in the latter case individual drives pass to each axle through a transfer box incorporating a lockable third differential. The bogie suspension consists of four semi-elliptic springs with "non-reactive" linkage, a layout which prevents axle hop when braking or accelerating harshly.

#### COAL RATES UNDER SCRUTINY

TIPPER operators in the Northern area are concerned about inadequate rates for the carriage of coal. meeting held by the Road Haulage Association's Northern area last Friday, it was decided to appoint a committee to analyse prevailing rates and to seek agreement on fares schedules from large users, including the National Coal Board.

Mr. R. Durham is chairman of the committee and Mr. A. Glendinning vice-

#### MANCHESTER TO PAY MORE?

BECAUSE of what is officially described as "a severe shortage" of platform staff, Manchester City Council is to be asked to consider extra payments, said to amount to between 17s, and £1 a week, for its employees in the corporation transport department. The extra payments would be coupled to a relaxation of "no standing" rules in non-peak times.

# Forthcoming Events

March 5-14.—Leipzig Spring Fair.
March 7.—Motor and Cycle Trades Benevolent
Fund. Annual General Meeting. Connaught
Rooms, London.
March 13.—R.H.A. Met. and South Eastern Area
Banquet and Ball. Grosvenor House, Park

Lane.

March 13.—Institute of Transport, London: "Mass
Transportation," by L. C. Hawkins, L.T.E.

March 16-26.—Geneva Motor Show.

March 24.—Institute of Transport Annual Dinner.

Dorchester Hotel.

April 8.—National Coach Rally, Wigan to Dorchester Hotel.

April 8.—National Coach Rally, Wigan to Blackpool.

April 18-21.—Scottish R.P.T.A. Conference. Turn-

April 18-21.—Scottish R.P.T.A. Conference. Turnberry. Ayrshire.
April 22-23.—British Coach Rally. Brighton.
April 26.—T.R.T.A. London and Home Counties annual meeting. Criterion Restaurant. Piccadilly.
May 1.—T.R.T.A. Annual Dinner. Grosvenor House. Park Lanc.
May 11-17.—International Union of Public Transport Conference.
May 16-18.—Public Transport Association Annual Conference. Fastbourne.

Conference. Eastbourne.

May 23-25.—National Association of Furniture
Warehousemen and Removers Annual Conference. Turnberry, Ayrshire.

May 29-June 7 (provisional).-Institute of Transport

May 29-June 7 (provisional).—Institute of Transport visit to Belgium.

June 5-9.—Institute of Public Cleansing Annual Conference. Aberdeen.

June 12-15.—Vehicle Builders' and Repairers' Association Annual General Meeting and Conference. Rothesay, Isle of Butte.

June 18-24.—Construction Equipment Exhibition, Crystal Palace, London. S.E.19.

September 17.—Lorry Driver of the Year Contest, National Final. Fort Dunlop, September 21-October 1.—Frankfurt Motor Show. October 5-15.—Paris Motor Show. (Cars only.) October 17-18.—Road Haulage Association Conference. Brighton.

October 17-18.—Road Haulage Association Conference, Brighton.
October 18-28.—Earls Court Motor Show.
October 28-November 8.—Turin Motor Show.
October 31.—British Electrical and Allied Manufacturers' Association Dinner. Grosvenor House, Park Lane, London,
November 10-16.—Scottish Show, Kelvin Hall,

13-16.—National Maintenance Con-and Exhibition, Central Hall,

May 29-June 1.—Institute of Transport Congress.

Cardiff.

#### Thornycrofts Leave T.E.T. Board

THE name Thornycroft has gone from the board of directors of Transport Equipment (Thornycroft), Ltd. Associated Commercial Vehicles, Ltd., announced yesterday that following the acquisition of the whole of the T.E.T. share capital, Mr. John Thornycroft, C.B.E., Mr. G. E. T. Eyston, O.B.E., M.C., Mr. Roger Thornycroft, D.S.C., and Mr. I. Donaldson have resigned from the board of T.E.T.

Mr. R. J. Newman, C.B.E., J.P., will continue as managing director, and Sir William Black, managing director of Associated Commercial Vehicles, Ltd., and chairman of A.E.C., Ltd., has been appointed chairman of the company.

Mr. J. O. Bowley, director and general manager, and Mr. J. D. Slater, commercial director of A.E.C., Ltd., have been appointed directors of the company. Mr. I. Donaldson will continue as secretary.

Mr. John Thornycroft has resigned as chairman of Thornycroft (Australia) Pty., Ltd., and Mr. Roger Thornveroft has resigned as a director of Thornycroft (South Africa) Pty., Ltd. Mr. J. D. Slater will be appointed a director of both companies.

#### LONDON BUS STRIKE CALLED OFF AT ELEVENTH HOUR

#### From Our Industrial Correspondent

L ONDON'S bus services were saved at the eleventh hour this week from disruption by an unofficial strike of some busmen. The trouble arose over the vexed question of adjusting running schedules more realistically to the staff available.

Last Sunday, three days before the new schedules were to come into force, a mass meeting of men at West Ham garage decided to strike from midnight on Tuesday over the new schedules.

But after Union officials obtained from London Transport an undertaking of more equal distribution of cuts among the services and a guarantee that the cut services would be restored as soon as more staff became available, the strike was called off and the new schedules were

#### RATES MAY HARDEN

THE possibility that rates increases may affect some traders using long distance haulage services was admitted by Mr. Alexander Scott, chairman of the R.H.A. Long Distance Group, at the launching in London on Tuesday of the Group's new long distance rates guide.

Questioned about a possible upward tendency of rates as a result of the guide. Mr. Scott said it could well affect traders who have been taking unfair advantage of hauliers by employing concerns offering uneconomic rates. He emphasized, however, that the object of the new guide was primarily to provide R.H.A. members with a guide to a fair basis of charging for other than regular or specialized traffic. There was no thought of a general increase in rates.

# The "Military Pickle" on Salisbury Plain

THE term "military pickle" might well describe a situation which arose on Salisbury Plain when Blue and Ivory Coaches, Ltd., Swindon, asked to provide an immediate service for military personnel travelling between Swindon and Shrivenham, were told a few days later that as a rival operator had tendered a lower price the instruction must be revoked.

The Western Traffic Commissioners were asked to decide the case at Bristol last week, and counsel for the objectors, Bristol Omnibus Co., Ltd., said they would require the wisdom of Solomon.

Mr. Goodeve-Docker, for Blue and Ivory, said the military authorities telephoned his clients asking them to provide an assisted service forthwith. At the time a dispensation was granted and the service started on November 6. Three days later they were sent a form of tender, and when this was returned they were told by the military that their tender had not been accepted. As a matter of fact, said Mr. Goodeve-Docker, a Mr. Drew had the tender.

Mr. Drew, of Highworth, Wilts, disputed Blue and Ivory's right to the contract, but Mr. Goodeve-Docker contended that his clients had the contract and they were in fact already running a service between Penhill Camp and the Military College of Science at Shrivenham.

A spokesman for Blue and Ivory said after their tender had been accepted in writing they were asked to suggest a time-table for the service. They did so, and after obtaining a dispensation they applied for a variation of their licence.

#### Tender Fails

Shortly after that they received a tender form and later they were informed that their tender had not been accepted but that Mr. Drew's tender had been accepted. They wrote to the military authorities about the matter but received no reply. Witness admitted he knew Mr. Drew's tender was 1s. 6d. a day cheaper than their own.

Mr. Drew said that had he known Blue and Ivory were running a service over the route he would have been willing to come to some agreement with them (about fares). "There is too much undercutting in the industry today," he added.

Mr. T. D. Corpe, who appeared for the Bristol Omnibus Co., said the case called for a Solomon, but as the Commissioners could not divide the baby, it must, he submitted, be destroyed: neither party should have it.

Mr. S. W. Nelson, chairman, said the case presented some difficulty. Bristol Omnibus Co. already served the route and Blue and Ivory had not got the tender. In the view of the Commissioners B.O.C. should have been asked to tender, but that was the business of the military authorities.

"It is our duty," said the chairman, "to give B.O.C. an opportunity to put in an application for the service." There was nothing to choose between the three parties. This was an instance of where the award must not necessarily go to the

holder of the tender; but they could not grant either the application of Blue and Ivory or Mr. Drew.

"We shall continue for a month the Blue and Ivory service, and meantime Mr. Corpe must take the initiative and tell the military the Commissioners are not prepared to grant a licence in the present circumstances." A final decision would be postponed for a month pending further action by the military.

#### Time Clocks for a Haulage Concern

A LEICESTER haulage concern, A. Fletcher and Co., of Ibstock, are to place time clocks in the cabs of their lorries as "the only way to stop abuse of the log sheets."

At Market Bosworth Magistrates' Court a driver employed by the firm was fined in connection with charges arising out of exceeding the permitted number of driving hours.

For Fletcher's, Mr. C. J. Grey said: "Now and again one of them manages to land this firm in trouble and, slowly but surely, they are building up a reputation on the conviction sheet. My clients are known as a firm who try their utmost to carry out the regulations."



After more than 25 years' service and covering more than a million miles for Sadlers (Chichester), Ltd., the A.E.C. Mammoth Major Mk. Il eight-wheeler on the left has been sold to a local farmer and replaced with this Mammoth Major Mk. V model, fitted with a Park Royal Cab and Telehoist Sack Loader equipment.

#### Orders and Deliveries

BARTON RE-EQUIP: Barton Transport, Ltd., Chilwell, Notts, have ordered three more A.E.C. Mercury tractive units to further the re-equipping of their recently acquired haulage fleet,

SALFORD TAKES ATLANTEANS: Salford City Transport, which at present operates 65 Leyland Titan doubledeckers, has ordered two Atlanteans with M.C.W. highbridge bodies.

SCOUT CALL: Scout Motor Services, Ltd., Preston, have ordered three Leyland-M.C.W. Atlantean 78-seaters and three Leopard coaches with Duple 38-seat bodies incorporating toilet accommodation. The coaches will be engaged on express services to London.

MERCURY ORDER FROM WILTS: S.C.C. Transport, Devizes, have ordered seven A.E.C. Mercury tractive units. Six of these will work with flat-platform semi-trailers, and the seventh will haul a bulk grain-and-seed container.

VICTORY POPULARITY: Orders for Guy Victory single-deck passenger chassis have been received from Australia. Belgium. Holland, Hong Kong, Norway, Portugal and West Africa. Air-sprung versions are already operating in Western Australia and Norway: the West Australian Government Railways have three, and have recently ordered another three, whilst the two at present in service in Norway are shortly to be supplemented by a further two.

KIRKDALE HEAVIES: The Kirkdale Haulage Co., Ltd., Liverpool have ordered a Leyland Beaver and four Octopuses, all from the new Power-Plus range.

RUMANIAN REPEATS: Further orders for vehicles and spares have been placed with Leyland Motors, Ltd., by Technoimport, Bucharest, The latest order is for Super Hippo models, and brings the total value of contracts obtained this year from Rumania by Leyland to over £230,000.

DERBYSHIRE A.E.C.s: Kays (Derby), Ltd., A.E.C., authorized dealers, received orders for 19 chassis a fortnight ago. The orders include one from William Short, Ltd., Newthorpe, for two Mandator and two Mercury tractive units: one from H. Burn, Ltd., Derby, for a Mammoth Major eight-wheeler, and one from F. B. Atkins, Ltd., Findern, for three Mercury chassis.

HONG KONG WULFRUNIANS: Two Guy Wulfrunian double-decker bus chassis have been ordered by the China Motor Bus Co., Hong Kong, Wulfrunians ordered by British operators include 50 for the West Riding Automobile Co., two for B.E.T., two for Wolverhampton Corporation Transport and three for Lancashire United Transport: two of these latter will have entrances behind the front wheels

# **Bulk Grain Delivery Not** Catching on Very Fast

BULK delivery of grain and feeding-stuffs is not catching on very quickly in this country. This is the finding of a survey carried out by the National Association of Corn and Agricultural Merchants, published last week. It was stated to have developed "disappointingly

The survey covered handling trends, types of vehicles and equipment in use, and difficulties that have been experienced. It was based on replies from leading agricultural merchants in England and Scotland.

Only in East Anglia and Essex was there a marked trend to increased use of bulk vehicles, stated the report. The average increase in bulk handling of grain since 1958 was 50 per cent.. although in some cases the increase was as high as 200 per cent. In many other areas, however, the average increase was 10 per cent, or less. It had frequently been less than was anticipated.

Delivery of feedingstuffs in bulk was developing even slower than was grain

#### Maltsters Refuse Bulk Grain

Wheat was generally the main crop moved in bulk, largely because the maltsters had, on the whole, refused to accept bulk grain. The average figures, the report pointed out, masked considerdifferences between individual merchants.

Specially constructed bulk carriers were generally used, supplemented by standard lorries adapted for bulk work or carrying removable containers. There was a considerable amount of hiring from hanliers.

The main snag at farms was still slow loading. Cases of three to four hours for the loading of a 10-ton grain carrier were cited. Another farm trouble was access to the farm and the grain-storage bins.

Damp grain created some problems, but was not a major factor.

It was evident that merchants who blazed the trail in bulk handling had found it economic, said the report. They were now handling a substantial proportion of their tonnage in this way. One merchant reported that 9-ton loads were good, economically, up to a radius of 35 miles even without backloads.

Only a small proportion of merchants reported delivering feed in bulk. The trade was carried out mainly by national bodies. The tendency, where work was done in bulk, was away from specialized vehicles and towards a dual-purpose flat.

#### Sheffield Bus Garage Opening

MR. R. C. MOORE, general manager of Sheffield transport department, will officially open the new East Bank bus garage, built at a cost of over £450,000, on May 2. It will be his last day of duty before his retirement. He will be assisted by Mrs. Moore.

The new garage is the third of the three which were envisaged when the programme for scrapping trams was planned. It has the same design as the Greenland road garage at Darnall, opened in 1959, with four 96-ft. spans and accommodation for 150 double-deck



The Bonallack aluminium-alloy tank mounted on this Leyland Octopus chassis weighs only 1 ton 15½ cwt. The seven-compartment tank can carry up to 4,000 gal. The vehicle has been placed in service with the Regent Oil Co., Ltd.

#### Micrograms

Radio-telephone equipment is to be installed by Northampton Highways Dept. in a further six vehicles at a cost of £1,000.

Land-Rovers have earned more than £100m. in exports alone, it is revealed in Rover News. Since 1948, more than 212,000 have been sold to customers in 150 overseas

Four steam-powered Sentinels have been rour steam-powered Sentinels have been sold by the United Africa Co., Ltd., in part-exchange for four Bedford TK models and a Bedford light van. The Bedfords were supplied by Garlick, Burrell and Edwards. Ltd., who sold one of the Sentinels to U.A.C. in 1924. Ambulance drivers in Birmingham are to receive a 10s, 6d. a week wage increase back-dated to December 5.

Next-day delivery in Northern Ireland of goods collected in the Manchester area is promised of a special air freight container service which B.R.S. (Parcels), Ltd., are to introduce between Manchester and Belfast

Health Check: The Road Transport Committee of Newcastle upon Tyne City Council is to ask the Minister of Transport to introduce legislation making it compulsory for all bus drivers to have an annual medical

Record? A new bus-pulling record was claimed by 36 students of Nottingham Technical College after they had pulled a 5-ton single-deck bus 50 miles from Doncaster to Nottingham in 28 hours. They made the journey as a publicity stunt.

First-aid: The Ministry of Labour have published a leaflet setting out the provisions of the First-aid (Standard of Training) Order, 1960. Information is given about courses of first-aid training generally available, and the types of certificates issued by the training

Veteran Remembered: A replica of the first motor coach used by the late Mr. T. H. Barton, of Nottingham, was on show at the Castle Hill car park, Stamford, recently, to mark the takeover of Cream Bus Services by Barton Enterprises. The coach was a 1908 Durham-Churchill 28-seater which operated on the Long Eaton-Nottingham route.

#### Diesel Fumes: T.R.T.A. Counterblast

COUNTERBLAST to the adverse A publicity that is being given to diesel exhaust fumes is planned by Traders' Road Transport Association.

Mr. H. R. Featherstone, the national secretary, says: "There is a distinct danger that a false impression will be built up in the public mind and that they will fail to realize that the vast majority of vehicles are blameless in this respect.

"It is all the more important, therefore, that the few who are not blameless shall take action immediately to prevent road transport from getting a bad name."

Member-firms who have not a regular system of inspection and maintenance are being urged to institute one immediately on the grounds that in several cases the fault lies in inadequate maintenance. The T.R.T.A. National Council have discussed the situation and various possibilities are under consideration.

#### TALK ON LICENSING

THE next meeting of the Devon and Cornwall centre of the Institute of Traffic Administration will be held at the South Western Gas Board Demonstration Theatre, Plymouth, on March 29, when Mr. W. E. Foster, secretary of the Devon and Cornwall area of the R.H.A., will give a talk on goods vehicle licensing.

#### Follow Us, Say Tippers Pool

MR. G. C. GOODIER, chairman of North Western Tippers, Ltd., the newly formed pool of tipping vehicle operators belonging to the North Western (eastern) area of the Road Haulage Association, says the members of the pool hope their example will be followed by hauliers in other parts of the country whenever some compara-tively large project is in hand.

"We feel sure," he says, "that the contractors, like us, have been alarmed and troubled at the extent to which operators with little or no experience, and for the most part with no licence to operate, have flagrantly disregarded all the regulations introduced in the interests of road safety, and have apparently been concerned only to make as much money as possible before their vehicles fall to pieces."

#### POPULAR BODIES

I N addition to an order from A.E.C. (Sales), Ltd., for 24 Marshall-Mulliner 33-seat metal-framed bus bodies on A.E.C. Ranger chassis, a further 63 such bodies have been ordered from Marshall Motor Bodies, Ltd. They are mostly for the export market, and will be based on Bedford, Guy, Atkinson, Leyland, Albion, Bristol. Austin, Morris and Chrysler

A pick-up version of the Thames 15-cwt. model has been introduced by the Ford Motor Co., Ltd. The all-steel welded and riveted body is double-skinned and has a resinbonded plywood floor. The body interior length is 7 ft. 101 in., the interior width being 4ft. 104 in. The pick-up costs £487 in primer finish.



#### Absentees Warned by Mr. W. F. Quin

FAILURE of applicants to appear in support of their claims was criticized strongly by Mr. W. F. Quin. Scottish Licensing Authority, at Glasgow last week, when all three applicants on the list failed to appear or to be represented before the Authority.

Apologizing to the many objectors and their agents who turned out for the hearing. Mr. Quin said that this was an old complaint. There were people who put the court, its staff and others in the industry to a great deal of trouble and who then simply failed to turn up at

He had no power to apply any penalty. but it might well be that amending legislation for the hearing of traffic claims might take into account the failure of such applicants and make

The applicants were John M. Blackett. of Glasgow, Dounan's Marine Supply Co., of Portavogie, Northern Ireland, and Frank McMurray of Cloughey, Northern Ireland. In view of the possible misunderstanding of procedure by the Northern Ireland applicants, Mr. Quin refused the applications subject to satisfactory explanations.

## Sir Henry Spurrier Denies Foden Take-over Bid

THE board of Leyland Motors, Ltd., have no ambition to take over Fodens, Ltd. That statement was made by Sir Henry Spurrier last week. He admitted that Leyland had recently bought a block of Fodens' shares, but said it was a private deal with a branch of the Foden family.

The proposed take-over by Leylands of Standard-Triumph International, however, was given the all-clear at the Leyland annual meeting. All resolu-tions put forward were fully carried without either abstentions or dissensions.

Sir Henry said that even if Standards were not taken over, Leyland would have to build-up a similar organization in the long run. Leyland were looking for productive capacity and yet did not want to diversify their activities too much.

Their object was to develop export markets still further, especially in the young countries. Exports were now accounting for 60 to 65 per cent. of the company's output, but Sir Henry hoped that this would be raised to 75 per cent. within the next few years. By increasing production the company hoped to give customers even better value for

"One of the company's objectives," said Sir Henry, "would be to continue to step up the training of technical staff to run the company's expanding organization and to man outlying branches in other countries."

Sir Henry stated that the offers to Standard would remain open for acceptance for approximately a month. response from Standard shareholders was favourable steps would then be taken to make the take-over effective.

In answer to a stockholder as to whether the racial or political problems in Africa were likely to affect Leyland's interests, Sir Henry said that although the situation might cause a degree of nervousness for some people, the fact was that Leyland sales had not decreased, but had been well maintained. This was in spite of such troubles as well as increased competition in this market from British and foreign manufacturers.

Sir Henry said that the African continent was the company's biggest single market abroad. It was always the subject of close examination by top executives of the company, and he and a codirector were expecting to visit parts of Africa during the next few weeks.

#### Back-door Entry

Some hauliers have a tendency to make use of a contract A licence as "a sort of back door into the haulage industry," said Mr. J. A. T. Hanlon, when he refused an application by J. Brown (Thursby), Ltd., Carlisle, to add two vehicles to their B licence, subject to the surrender of a contract A licence. Mr. Hanlon said: "These applications are becoming more and more frequent."

Mr. Brown told the inquiry that he was on a contract at the moment which guaranteed a certain amount of money per month. But he said that he was not getting the full amount, and added: "If I take action about this I may lose my contract for next year.

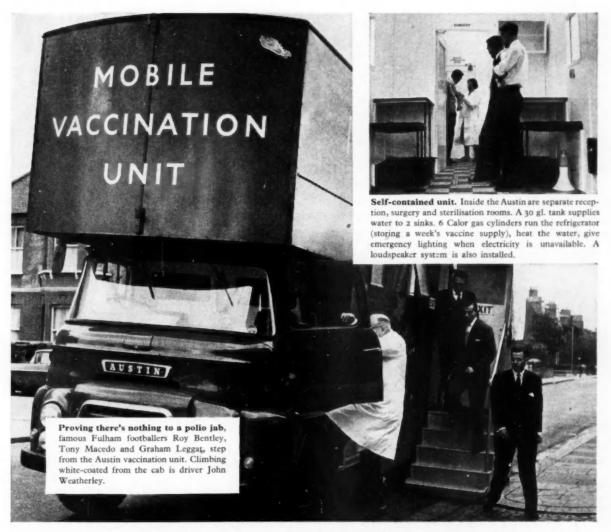
#### HAULAGE FIRM FAILS

IN the Chancery Division on Monday, Mr. Justice Buckley dismissed by consent a petition for compulsory winding-up of Manchester Haulage, Ltd., whose registered office is at McKiernan House. Oxford Street, Salford, Lanes.

Counsel said that creditors had now agreed for the company to go into voluntary liquidation.

#### VOLKSWAGENS IN CANADA

DURING 1960 some 45 per cent. of the 6.000-1b, and under gross weight class of commercial vehicles imported into Canada were Volkswagens. Whilst it is expected that this share of the market will be maintained in 1961, a spokesman of Volkswagen (Canada), Ltd., admitted that heavy competition is being experienced from British-built Ford and General Motors' products.



# Austin goes fighting fit into polio battle

WITHIN THE NEXT FEW YEARS thousands of people will have been inside this Austin 7 tonner. For the dark blue giant has dates to keep all over Britain; in busy town centres and tiny villages, at railway stations, factories, dance halls and sports grounds. It's a 13 feet high by 23\frac{3}{4} feet long mobile vaccination unit, only one of its kind in the world.

Here you see it outside Fulham Football Club ground, and stepping from it are 3 men familiar to practically every Soccer fan and all who cheer for Fulham.

Adults and apathy The Austin's job? To encourage anti-polio injections among the up-to-40's. When lack of response to this campaign had doctors worried, Pfizer, manufacturing chemists of Sandwich, commissioned the mobile unit, fitted it, staffed it with nurse and drivers, and offered it free to all local medical officers. It is booked solid until mid 1962 and in the first 5 months 15,000 people were treated in it.

The unit was commissioned in early summer when polio risk is greatest. It was needed urgently. The Folkestone Motor Co. Ltd. built the body and handed the vehicle over completely fitted within 28 days. Thumbs up, from the driver Since late June the vehicle has covered thousands of miles, and never been off the road. One week perhaps in Bradford, the next detouring to avoid low bridges in remote Welsh valleys.

Driving it from the start has been John Weatherley, 20 years on London buses. He says, "Both my co-driver and myself say what a beautiful thing this 7 tonner is to drive. For comfort it's equivalent to sitting in a car. It rides very well and we've had no trouble whatsoever with it. From a driver's point of view it's a really wonderful job".

The huge Austin commercial range includes vehicles from \$\dagger\$ ton vans to 7 ton trucks.

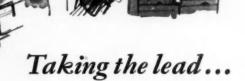
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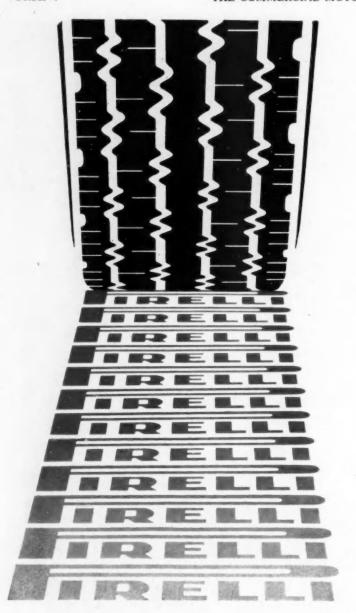
March 3, 1961

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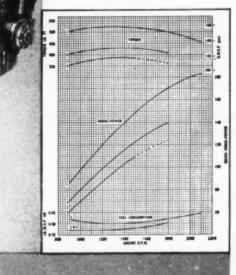




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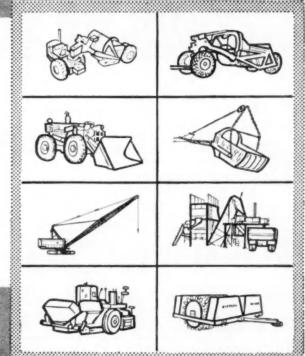
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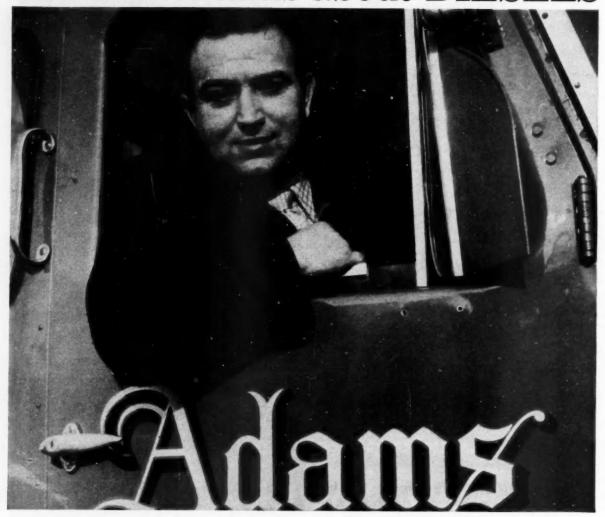
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JACK OLDING



# Eddie Cox talks about DIESELS



"I've driven long-distance for fifteen years ... driven most makes in my time, petrol-diesel-some of them good, some just perishing headaches.

Nothing measured up to my idea of a real reliable job until I tried CUMMINS. First time I ever drove one was a real eye-opener! Plenty of power, easy on fuel, and never any trouble.

Nowadays at Adams we prefer CUMMINS."



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Factory: Shotts, Lanarkshire, Scotland. U.K. Distributors: Cummins Diesel Sales and Service Ltd.

International Sales and Service: Cummins Diesel International Ltd., Nassau, Bahamas

#### No Replacement For Maintenance

APPLYING at Liverpool last week for an articulated vehicle on B licence to be used solely for maintenance purposes, Johnson, Wild and Co., Ltd., Ashton Street, Newton-le-Willows, said that they had not made use of Regulation 14 of the Road Traffic Act for some years because previously they found that by the time the temporary substitution was granted, the vehicle in question had been repaired.

Mr. R. Johnson, managing director, said that the vehicles in their fleet of artics, were not maintained until they showed signs of real distress. All units were repaired throughout the night or at week-ends and this was very unpopular

with the staff.

Refusing the grant, Mr. L. Shelton, deputising for the North Western Licensing Authority, said that a replacement vehicle could only be granted when it was proved that Regulation 14 was inadequate.

#### Beds for "BEN"

IT is announced by The Motor and Cycle Trades Benevolent Fund that with the gift under Covenant of another £5,000, Castrol, Ltd., joins the following firms who, by donating a minimum of £10,000 to the Endowment Fund, have rooms named after them at BEN's Nursing Home at Ealing: Austin Motor Co., Ltd., Dunlop Rubber Co., Ltd., Henlys, Ltd., Joseph Lucas, Ltd., Nuffield Organization, Rolls-Royce, Ltd., United Dominions Trust, Ltd., Colmore Depot, Ltd., Birmingham, A. and D. Fraser, Ltd., Glasgow, London Vauxhall Distributors, Nuffield Distributors, Pressed Steel Co., Ltd., Solex, Ltd.

Mr. R. M. Papelian has sent the Fund

£2,500 to endow a bed.

## "Retrograde Step" to Scrap Licensing System

ADDRESSING a meeting of the return, Mr. Campbell Wardlaw empha sized that such a contention was a "Aspects of Transport Law," Mr. T. H. Campbell Wardlaw repeatedly referred to the article "Is Goods Licensing Out of Date?" by Mr. Ralph Cropper, which appeared in the February 17 issue of The Commercial Motor.

Although agreeing that the article gave sound reasons for scrapping the licensing system in conjunction with the reorganization of the railways, Mr. Campbell Wardlaw said it would be a retrograde step and would lead to chaos and a rate war within the road haulage industry. Much damage would be done whilst the fittest were surviving, and every hostility could be expected to any such proposal from organized haulage.

In replying to a related question as to whether it would benefit the industry if the railways decided to cease opposing applications for licences in the traffic courts on the grounds of inadequate

sized that such a contention was a common error. It was the Licensing Authority who ultimately determined applications and theoretically he should conduct precisely the same hearing whether or not any objections were made.

Mr. Campbell Wardlaw had earlier summarized the major licensing trends of the past year, including the switch from contract A to open A licences and the Merchandise Transport case.

#### £10,000 LOSS

THE operation of local bus services in Thornton Cleveleys cost Ribble Motor Services, Ltd., a loss of £10,000 last year, and would probably cost more in the current financial year, stated the company's general manager in a letter to Thornton Cleveleys general purposes committee.

He was commenting on a decision of Thornton Cleveleys Council not to support an appeal against the fuel tax.



#### **New Transport Companies**

Barden Brothers (Haulage), Ltd. Cap. £100. Dir.: R. E. Barden, 112 Chatsworth Road, London, E.5. Berkeley Hauliage Co., Ltd. Cap. £1,000. Dirs.: H. R. C. Berkeley and R. F. B. Berkeley, Cotheridge, Castle Hill, Brenchley, Kent. Sec.: H. R. C. Berkeley, Reg. office: 139 High Street, Tonbridge.

idge, Castle Hill, Brenchley, Kent. Sec.: H. R. C. Rerkeley, Reg, office: 139 High Street, Tonbridge, Kent.

East Norfolk Bulk Transport, Ltd. Cap. £100. Dirs.: C. R. Poilit, Smallburgh Hill, Smallburgh, Norwich, Norfolk, N. D. Woodrow, 31 Grove Walk, Norwich, A. U. Mowle and M. J. Woodrow, Sec.: A. U. Mowle. Reg. office: Ebridge Mills, North Walsham, Norfolk. G. J.S. Roadways, Łtd. Cap. £2,000. Dirs.: G. E. Jones, 410 Walshall Road, Birmingham, 22B, N. A. Jones, 44 Pear Tree Drive, Birmingham, 22B, N. A. Jones, 44 Pear Tree Drive, Birmingham, 22B, N. A. Jones and J. T. Paxton, Sec.: N. A. Jones, Reg. office: Poiling Mills, North Walsham, Son, Wembley), Ltd. Cap. £100. Dirs.: A. R. G. Crawley and Mrs. D. E. Crawley, 2 Ashburnham Avenue, Harrow, Middx, Sec.: D. E. Crawley, Reg. office: 99 Baker Street, London, W. I. North Devon Carriers, Ltd. Cap. £100. Dirs.: T. E. D. Kidd, Auton Dolwells, Milverton, Som. and J. D. A. Goulstone, H. Church Square, Taunton, Som. Sec.: J. D. A. Goulstone, H. Church Square, Taunton, Som. Sec.: J. D. A. Goulstone, H. Church Square, Taunton, Som. Sec.: J. D. Rowlands and Son (Haulsage), Ltd. Cap. £100. Dirs.: T. Rowlands and P. Rowlands, 3 Lower High Street, Conway, J. M. Evans, The Bungallow, Morfa, Conway, and F. Rowlands, Sc.: J. Hodgetts, Reg. office: 29 Princes Drive, Colwyn Bay.

T. Wilkinson and Son (Warehousing), Ltd. Cap. £1,000. Dirs.: H. V. Vack, Heatherlea Cottage, New Road, Landford, Wilts, and E. V. Vack, Hants, Sec.: H. V. Vack, Reg. office: 50 The Hundred, Romsey.

A. Burnett and Sons (Transport), Ltd. Cap. 5,000. Dirs.: A. W. Burnett, 69 Woodfield Avenue. Farington, Hants, and F. W. Burnett, 118 Francis Avenue, Southsea. Sec.: R. C. Burnett. Reg. office: 17a Castle Road, Southsea.

B.I.P. Transport Co., Ltd. Cap. £500. Dirs.: J. Ivory. 32 Laburnam Way. Penarth. G. G. Bozzota. 45 Glenroy Street. Roath. Cardiff. P. Marenghi and P. Petrosillo. Sec.: J. Ivory. Reg. office: 61 Plantaganet Street. Cardiff.

Anglo Polish Enterprises, Ltd. Cap. £2,000. Dirs.:

C. Holdsworth. Heatherstone, Queensgate, Halifax, and E. B. Jeffery, 7 Princes Gare, Halifax, W. B. Wight and E. R. Wasilewski. Sec; E. B. Jeffery. Reg. office: 70-71 King Street, London, W.6.

R. Savage (Haulage), Ltd., Cap. \$2,000. Dirs.: R. Savage and E. A. Savage. 19 Thornbridge Drive. Freecheville, Sheffield, 12. Sec. R. Savage. Reg. office: 19 Thornbridge Drive, Frecheville, Sheffield, 12.

R. E. Nixon, Ltd. Cap. £10.000. Dirs.: R. E. Nixon and Mrs. O. J. Nixon, Sunbreak, Bartington, Lower Whitley, Warrington, Sec.: R. E. Nixon, Reg. office: Sunbreak, Bartington, Lower Whitley.

W. Kempson, Ltd., Cap. £100. Dirs.: W. Kempson and L. J. E. Kempson, 34 The Drive Morden, Surrey. Sec.: L. J. E. Kempson, Res office: 34 The Drive, Morden.

Northern Film Transport (Kendah, Ltd. Cap. 12,000. Dirs.: Mrs. O. N. Giles and J. I. Giles, Watermead, "Windermere. Sec. W. J. Blenkin-nip, Reg. office: Tower Buildings, Oxenholme, nr. condenses.

Kendal.
William Tomkins (Haulmisers), Ltd. Cap. £1,000.
Subs.: J. W. Tomkins. Apethorpe. Peterborough, and C. Greenwood. Priestgate. Peterborough. Reg. office: Willibrook Lodge, Apethorpe. nr. Peterborough.

#### The David Brown Story

FOLLOWING a spate of sensational novels set in Midland and Northern industrial towns, it is a welcome relief to read a factual account of the history of a thriving company in one of these areas. Such has been the aim of Desmond Donnelly in his book "David Brown's," published by Collins, price 21s.

Last year the David Brown organization-celebrated its centenary and this book traces the history of the firm from its beginnings in 1860, when Mr. David Brown, grandfather of the present chairman of the David Brown Corporation, started work at 17 on his own account as a pattern maker in Vulcan Street, Huddersfield

Mr. Donnelly then goes on to describe the subsequent growth of the company and the various gear-cutting processes originated by the concern. Tractors and cars take their place in the David Brown story, and the book provides an interest-ing picture of how this large and prosperous organization has developed over the years. There are delightful pen portraits of the principal characters.-J.M.

#### First Details of Blackpool's Incentive Bonus Scheme

DETAILS of the incentive bonus scheme proposed for employees of Blackpool transport department have been disclosed by the chairman of the transport committee, Ald. E. E. Wynne.

The plan is that the first £5,000 of profits would go to the department, and he balance between department and staff. "Say we got £25,000 profit, then there would be £5,000 for the department and the £20,000 would be divided, leaving £10,000 for the employees," Ald. Wynne explained. "On the basis of a staff of 1,000 that would be £10 each for a year.

"The manager would share in the scheme, but only on the same basis as any other member of the department. I can visualize that profits would reach £40,000. To qualify, an employee would have to serve 48 weeks in the year; but there might be special circumstances why an employee fell below 48 weeks and they would be considered."

Ald. Wynne added that the aim was to operate the scheme from the next financial year, 1961-62, which meant, if the scheme were approved, the first bonus would be paid by Christmas next year.

#### MORE TO SPEND

SUBSISTENCE allowances for transport workers in the flour-milling industry have been increased from 16s. to 18s. a week.



A recent addition to the aircraft maintenance fleet of Cunard Eagle Airways, this Bedford TK was supplied by Petersham Garages, Ltd., and painted in the airline's workshops at London Airport.

#### Maintenance Men Get More Pay

ONE of the last agreements to be negotiated by Mr. Fred Eastwood, who retires as chief union spokesman on the road haulage wages councils at the end of this month, was announced last week.

It gives wage rises ranging from 6s. 9d. a week to 8s. 10d. to 240,000 men and women covered by the National Joint Industrial Council for the Motor Vehicle Retail and Repairing Trade. These include workers employed in workshops, stores and garage forecourts.

The new agreement gives men petrol pump attendants a minimum for a 42hour week of £8 6s. 3d. in London and £8 2s, 9d. in the provinces. Women will get £6 14s, 9d. in London and £6 11s, 3d. outside.

For skilled men in the workshops the 42-hour minimum will be £10 3s. in London and £9 19s. 6d. in the provinces. Semi-skilled men will get £9 3s. 9d. in London (£9 0s. 3d. in the provinces) and unskilled men £8 8s. (£8 4s. 6d.).

Ayr Corporation Works Committee are to con-ider the purchase of a buildozer for the Surveyor's

Department.

Hereford Corporation Health Committee recommend the purchase of a new 8 h.p. Morris van to be painted and built to the Health Department's

permeation.

Enfield Works Committee recommend the replacement of the following vehicles:—Four Dennis Paxit) vehicles; two salvage trailers; two side baders; one Dennis lorry; two Bedford lorries; and

Paxit) vehicles; two salvage trailers; two side loaders; one Dennis lorry; two Bedford lorries; and two gully/cesspool emptiers.

Morecambe and Heysham Transport Committee have accepted the tender of Leyland Motors, Ltd., for the supply of two "New Look" chassis fitted with Leyland 600 engines, and the tender of Massey Brothers (Pemberton), Ltd., of Wigan, for the supply of two 64-seater double-deck bus bodies.

The Metropolitan Water Board are recommended to authorize the putchase from Ransomes, Sims and Jefferies, Ltd., of 14 tractor dumpers and accessories, to replace existing machines beyond economic repair. It is also proposed to purchase two 30-cvt, self-loading trailers to facilitate the movement of the mechanical filter bed cleaning plant within the works and tenders for these are to be invited from specialist contractors. Total estimated cost of these proposals is 99,600.

Birkenhead Corporation Cleansing Committee have recommended that the orisinal order placed with Shelvoke and Drewry, Ltd., for the supply of two fore and aft tipping vehicles, be amended by the substitution of two of the new type Pakamatic retives collection vehicles, at an additional cost of £1,983 per vehicle; and it is proposed that three bulk-loading refuse collection vehicles and a gully machine on order from this firm should be fitted with an improved type of chassis at an additional cost of £50 per vehicle.

#### Scottish Mobile Ice-cream Maker

THE first mobile ice-cream manufac-turing unit to be introduced in Scotland is now at work in the Paisley area. It is operated by G. Porrelli and Underwood Lane, Paisley, who already operate five normal ice-cream mobile shops.

The vehicle was built specially to Porrelli's requirements by Archibald Scott, Ltd., Bellshill, who have specialized in ice-cream vans, but have not previously made a manufacturing unit. The vehicle is based on a Commer 11-ton chassis, and the timber-framed, aluminium-panelled body has an overall length of 17 ft. 6 in., the width being 6 ft. 6 in.

The manufacturing equipment is carried under the floor in a compartment 4 ft. 6 in, long, 2 ft. 6 in. deep and 2 ft. wide. Housed in this compartment are an Onan 5 CCK 5R 5-kW. generator, with Onan Vacuflo cooling. This unit serves the freezer, the fluorescent roof lighting and ancillary needs. There is also a Sternette 1/3 H:P hermetically sealed unit of the S.3.614 single-phase type which covers the dual-purpose cabinet located at the rear of the vehicle.

Refrigeration work was handled by Automatic Cooling Engineers, Ltd. (incorporating Ace Refrigeration) of Glasgow, and fittings and equipment employed internally include a Taylor twin-head 733 continuous freezer, and a hot-water basin fed from a 10-gal, tank heated by the exhaust of the Onan unit. The equipment's controls are located in a panel adjacent to the driver's seat, so that effective control of the unit can be maintained while on the move

Porrelli are also having a smaller version of this unit built by the same concern, but this time incorporating a Taylor single-head 731 unit.

#### 

Chemsford Water Committee report that pro-vision is to be made in the estimates for 1961-62 for the purchase of a light van at an estimated cost of £350.

Swansea Corporation report the inclusion of a sum of £22.520 in the annual estimates for 1961-62 for the renewal of vehicles in the Cleansing Depart-ment, and it is proposed to seek sanction to borrow

rns sum.

Portsmouth Council Watch and Fire Brigade
Committee recommend acceptance of the quotation
of Dennis Brothers, Ltd., of Guildford, for the
sumply of a turntable ladder fire appliance for the
sum of £10,800.

Dual Corporation are recommended to accept the tender of East Kent Motors. Ltd., of Deal, amount-ing to £2.433. for the supply of an Eagle/Bedford combined gully/cesspool emptier vehicle of 800 galkons capacity.

gallons capacity.

Tynemouth Cleansing and Transport Committee have now accepted a tender of Minories Garage (Newcastle), Ltd., for the supply of a Karrier Gamecock 12-ou-yd. refuse collection vehicle at a cost of £1,496.

a cost of £1,496.

EaBlug Recreation Grounds Committee have recommended 'the acceptance of a tender of Stewart and Ardern, Ltd., of Acton, for the supply and delivery, on a part-exchange basis, of two lorries, for the sum of £2,311.

lories, for the sum of £2,311.

Hampshire County Council Fire Services Committee have approved the purchase of four new pump water tender vehicles; four Land-Rovers adapted as light fire appliances; two general purpose/personnel carrying vehicles; two staff cars, and two motorcycles, to replace old vehicles during the year 1961-62. Provision has been made in the Estimates submitted to the Finance Committee for expenditure of a sum of £14,400.

## Newcastle Route Change Granted - Subject to Review

DECISION—subject to review after four months—was given last week by the A Northern Traffic Commissioners on an application, made in January, by Newcastle Transport Department, to extend and re-route a service from the city centre to Ponteland, Northumberland, so as to operate through Darrass Hall Estate, and to revise the present timetable and amend the faretable consequential upon the proposed

changes. The reason for the application was given as the growth of population in the Darrass Hall Estate area, and an increasing pressure from local residents upon the local authority and the Corporation for an extension of the service.

At the public inquiry held at Ponte-land, it was stated that the Corporation were prepared to offer to extend the service provided only there was no addition to the losses already being incurred.

In their decision, the Commissioners said that whilst they had some sympathy with the Corporation, they could not agree that such a proposition was the sole basis for deciding the question in issue. The application had to have regard to Section 135 of the Act, in which the provision of unremunerative services was a matter to be considered in relation to the

Mr. J. A. T. Hanlon, the chairman, said that in the past the Corporation had been granted consent to operate outside the city boundary to the Ponteland area, and they were bound to be treated on the same lines as other operators who had highly remunerative services which enabled them to provide for the smaller communities. Furthermore, on applications to increase fares, the Corporation had always been allowed to bring into consideration their losses on unremunera-

"On the other hand, the people who live at Ponteland cannot expect to have the beauties and advantages of the country as well as all the amenities of city life, particularly in the form of very frequent bus services at off-peak hours. continued Mr. Hanlon.

The Commissioners were satisfied there was a need for the service to be extended, and that the proposals to reduce frequency were not unreasonable except for one lunchtime journey to provide for schoolchildren returning home to lunch.

Regarding the proposed increases in fares, the Commissioners considered an increase from 4d, to 6d, in respect of one particular stage to be too substantial, and suggested the new fare to be 5d.

#### T.R.T.A. Area Elections

THE following appointments have been made at area meetings of the Traders' Road Transport Association:-

Chairman: Mr. J. Delicate, Courtaulds, Ltd. Vice-Chairmen: Messrs. H. A. Beard, Lockheed Hydraulic Brake Co., Ltd.; F. W. Evans, Humber, Ltd.; J. H. Holbrook, Standard Motor Co., Ltd. Hon. Sec.: Mr. F. Moore, Courtaulds,

Wolverhampton Chairman: Mr. K. H. Widdowson,

British Oxygen Co., Ltd. Vice-Chairmen: Messrs. J. Davis, Tarmac Roadstone, Ltd.; E. Carter, Rubery Owen and Co., Ltd.; A. Smart, Canon (Holdings), Ltd. Hon, Sec.: Mr. D. Taylor, Joseph Batson and Co., Ltd.

Birmingham

Chairman: Mr. J. A. Edmonds, Henry Hope and Sons, Ltd. Vice-Chairmen; Messrs. E. G. Carson, Cadbury Bros., Ltd.; G. Morgan, Midland Counties Dairy, Ltd.; W. G. Poole, British Cycle Corporation, Ltd. Hon. Sec.: Mr. R. A. Phillips, Dunlop Rubber Co., Ltd.

#### Much-travelled

TWO drivers who were said to have driven at least the equivalent of 281 times round the world without being involved in a single blameworthy accident, were among those members of the staff of Stratford-on-Avon Blue Motors, Ltd., who received safety awards at Stratford



A Tirfor T.35 pull-lifting jack is being used in this demonstration of righting an overturned bus. The demonstration was carried out by Huddersfield Corporation Transport Department, who are one of many transport authorities using this equipment. The Tirfor jack is marketed by G. E. Simm (Engineering), Ltd., Sheffield, can be carried easily by one man, and has a pulling capacity of 5 tons.

#### Glasgow Hope to Show a Profit

ALTHOUGH there has been decrease in the number passengers carried there are hopes that Glasgow transport department will show a surplus during the present financial year, instead of an estimated deficit of

A £40,000 deficit was estimated largely because of expected competition from the electric trains, but with the temporary withdrawal of these services between Airdrie and Helensburgh the competition has not materialized. The electric trains are expected, however, to have a serious effect on the department's finances.

Commenting on this in his report for last year, Mr. E. R. L. Fitzpayne, general manager of the department, says that there can be little doubt that similar developments (to the Airdrie-Helensburgh service) on the city and suburban lines must attract many municipal transport passengers.

The number of passengers carried last was 538,836,758, compared with 551,858,737 in 1959. The total was almost 300,000 less than the figure for the post-war peak year of 1950.

There are at present vacancies for 500 drivers and conductors. Mr. Fitzpayne states that the position is being reached in which there is insufficient work at "offpeak " periods for the crews required at " peak " periods. Substantial recomperiods. pense is provided for duties with long "spreadover," with an adverse effect on the department's financial position. The unpopularity of these duties is one of the principal factors in the failure to recruit sufficient staff.

#### **BUSES REPLACE TRAMS**

PLANS have been made for buses to replace trams on another three routes in Glasgow this year. The remaining three tram routes in the city will be converted to buses by October, 1962.

At present the tram fleet in Glasgow numbers 208 vehicles, but after October this year there will be only 112 trams in service. At the end of the Second World War there were 1.150 trams in Glasgow.

NO EXTRA HALVES

REQUEST from the University of A Leeds Concessions Committee for an extension of half-fare concessions for students on Leeds Corporation buses has been refused by the transport committee.



Mileages Up

Power-assisted Stretcherloading Gear, Transforming Ambulances Into Dualpurpose Vehicles Accommodating Both Stretcher Cases and Sitting Patients, is a Feature of the Newcastle upon Tyne Ambulance Service

THE trend towards increased mileages to carry fewer patients continues as a feature of the operation of the 53-vehicle fleet of the ambulance service of Newcastle upon Tyne, which is the responsibility of Mr. H. M. Roberts, the Ambulance Officer. It is significant that the service primarily intended to cater for 270,000 inhabitants over an area of 11 square miles, carried 4,736 patients some 94,000 miles on behalf of other authorities in 1959.

This mileage figure for outside authorities represented an increase of almost 14,000 over the previous year but it serves to emphasize the general decline in the number of cases carried and greater mileage covered. For instance, the 1959 total mileage of 622,730 showed an increase of nearly 22,000 over 1958, with 833 fewer patients carried.

#### **Twenty Ambulances**

Some 39 vehicles in the fleet are licensed under the National Health Service Act and of these a total of 20 are ambulances. Nine of them are based on Bedford chassis, a similar number on B.M.C. and two on Daimler limousine D.B. chassis. With the exception of three B.M.C.-based vehicles, which have Wadham bodies, coachwork is by Lomas.

Seven Utilicons, with Lomas bodies on Bedford C.A.Z. chassis, accommodate sitting patients, but provision is made to carry one stretcher in the case of emergency. Six cars, Vauxhall Velox and Morris Oxford de Luxe, are used exclusively for sitting cases, mainly mothers with new babies and patients leaving hospital for convalescence.

Of six passenger vehicles, five seat up to 12 persons and the sixth, a Commer (Above) The powerassisted stretcherloading gear as fitted to a number of the Newcastle ambulances.

(Right) One of the nine Bedford ambulances operated in Newcastle leaving the grounds of the infirmary.



5-ton coach, accommodates 32 passengers. The coach has been modified to allow easier access by the 220 backward children which it carries daily. Four converted ambulances are also used for this work. Transport of welfare foods, equipment on loan to invalids, laundry and clinical materials is carried out by two Morris 1-ton P.V. vans.

Two Bedford personnel vans, with Martin Walter bodywork, are engaged on light work which includes the transport of blood and specimens. They also carry night staff to and from some 25 hospitals in the area.

These vehicles also carry inspection staff of the Public Health Department when they are engaged on testing food and drugs. Together with a further Bedford C.A.Z., used mainly for disinfecting operations, these vehicles are zinc lined to aid cleaning and disinfection.



An Austin ambulance at the gates of the Royal Victoria Infirmary.

carrying height. The tray, which swivels through 45 degrees from a protruding position at the base of the couch, is pneumatically operated from platform to couch level by an engine-

Air is stored in a reservoir located under the couch, adjacent to the pneumatic equipment. Its capacity allows the tray to be raised and lowered seven times before recharging, but a maximum of two complete operations is effected before the reservoir is auto-

The compressor is fitted with a 200-lb. "blow-out" tube, while at the rear end a reducing valve limits pressure on the tray. A nylon tube from the compressor feeds a pressure gauge

driven compressor.

matically recharged.

on the driver's dashboard.

# Cases Down



(Above) Much of the fleet's work is the conveyance of out-patients. Here a Bedford awaits cases at the skin department of the infirmary.





(Above) One of the seven Bedford Utilicons employed for sitting cases seen in the Haymarket, Newcastle upon Tyne. (Left) One of the two Daimlers in the ambulance fleet

Six more ambulances which have served their original purpose have been converted into four-berth stretcher-carrying vehicles for Civil Defence training, supplemented recently by two new Thames 15-cwt. vehicles.

Average petrol consumption for the fleet in 1959 was 12.7 m.p.g. and the average journey mileage per city patient was 4.4. More than 150,000 patients were carried approximately 718,000 miles, although if relatives and dependants who accompanied patients were included the figure would be nearer 300,000 passenger journeys.

In addition to the 53 vehicles in the fleet a further 14 are maintained in workshops of the Ambulance Service. These are the property of the Home Office.

Life expectancy of Newcastle ambulances is 10 years and this target is achieved by regular maintenance carried out by a staff of five fitters and one coachbuilder under the direction of Mr. G. Henderson, the chief engineer. All repairs and maintenance are carried out by this staff who also paint each vehicle every two and a half

An inspection is carried out every 2,000 miles and during 1959 some 300 of these checks were made. 10,000 miles each vehicle is completely stripped down and overhauled. Last year 69 vehicles had complete overhauls. Maintenance, including tyre costs, averages about 2d. a mile.

#### Stretcher Loading

Some time ago, Mr. Roberts, in co-operation with Mr. Henderson, successfully designed and tested a power-assisted stretcher-loading gear for installation in ambulances. Mr. F. Hardy, of Herbert Lomas, Ltd., was responsible for the transition from design to prototype.

The loading gear consists of a rectangular loading tray which accepts a loaded stretcher from the normal

leaving the depot. The pneumatic equipment, which was supplied by Lang Pneumatic, Ltd., Wolverhampton, is completed by a two-way cylinder which powers the plate in both directions. This obviates

exhaust. The fitting of power-assisted loading gear transforms the ambulance into a dual-purpose vehicle, which can accommodate either 10 sitting patients or one stretcher case with five sitting.

the doubtful procedure of allowing the

downward movement to run off the

The power-assisted gear is at the moment fitted to the six B.M.C.-Lomas vehicles and there are a further two vehicles with Wadham coachwork with facilities for the gear. After full experience with the loading gear, Mr. Roberts hopes eventually to convert all his ambulances into dual-purpose vehicles. The principle has wide application potential and Mr. Roberts and Mr. Henderson have completed a prototype for loading wheelchair invalids.



A Leyland articulated unit operated by the Brady concern leaves the Windermere ferry, "Drake." Extensive use is made of articulation.

Unrelenting Hard Work Plus Provision of Exactly the Service Required Have Put a Northwestern Haulier Very Much on the Road Transport Map

# Dry Steel Load Led to Round-

WORK, work, and yet more work, is the success recipe of the family haulage concern operating as T. Brady and Sons, at Barrow in the North West Lancashire cul-de-sac formed by the Furness peninsula. Because of the geographical situation they have their own peculiar problems in providing road transport for the industrial needs of the area.

Following the example of their father, Mr. Thomas Brady, the Brady boys have always been gluttons for work, and overalls rather than lounge suits are still the order of the day. The number of customers for outward traffic is restricted, and the flow is all in one direction. Customers include such well-known concerns as Thomas W. Ward, Ltd., ship-breakers, the Barrow Steel Works, and British Cellophane, Ltd.

The Brady approach to haulage is well illustrated by the service provided for the transport of steel baling hoops (12-ft. lengths of steel strip) from Barrow to Liverpool, for export to all parts of the world.

Two years ago this traffic, up to 7,000 tons annually, was being carried by rail. An essential feature of its transportation was the necessity of keeping the hoops dry. In damp conditions they are prone to rust and to become unacceptable, shippers being responsible for replacement.

Brady's were given an odd load to take by road which arrived bone-dry at a time when there were many complaints about rust damage on rail.

After negotiation it was agreed that during rush periods, when 100-500-ton lots are required to catch a particular ship, Brady's would provide a round-the-clock service, capable of completing the job in three-four days at 24 hours' notice, using three tractors and nine articulated trailers with three relays of drivers. At the commencement of a job three articulated trailers are loaded the day before, the first shift leaving at 4 a.m. and arriving at North Langton Dock, Liverpool, 90 miles away, at 8 a.m. Trailers are immediately dropped off in the sheds, where Mr, Brady senior and an assistant take over.

The tractors return solo, arriving in Barrow at approximately mid-day, when the second driving shift takes over. Greasing, oiling and filling up are done by the garage staff during the change-over.



This Leyland tractor and a York stake and rack trailer is one of two units on contract to British Cellophane, Ltd., upon whose premises it is seen here.

During the morning three more trailers have been loaded and returned to the depot by shunt vehicles. The second shift is timed to arrive in Liverpool at 4 p.m., allowing sufficient time for the trailers to be unloaded before the dockers cease work at 5 p.m. On the return journey, empty trailers from the morning shift are brought back to Barrow by 8 p.m., when the night shift continue opera-



the-clock Work



The four Brady partners: left to right, Mr. R. Brady, Mr. J. Brady (standing), Mrs. Mary Brady and Mr. T. Brady.

#### by G. Duncan Jewell

tions and arrive back in time for the start of the second day's operations at 4 a.m. On the last journey back the remaining trailers are pick-abacked. This continues until all the required tonnage has been moved.

At 13 tons per trailer, 117 tons of hoops arrive at Liverpool Docks in 24 hours in perfect condition. The essentials in the make-up of this successful operation have been arrangements by the shippers, James Fisher and Sons, Ltd., Barrow, for immediate unloading of trailers at Liverpool, and 24-hour access to the steel works for loading. A third factor is the complete overhaul and

A Guy eight-wheeler and a Leyland artic. of the Brady fleet loading paper pulp at Barrow Docks.

servicing of tractors and trailers before the operation begins.

To ease the strain on vehicles there has been a change this year, and four tractors are now in use so that a replacement is available in the event of breakdown.

The carriage of cellophane for British Cellophane, is fresh traffic, obtained since the company opened a new factory in the area about 18 months ago. Brady's handle a large proportion of the present output, which is still far short of full capacity. It includes home traffic to places in all parts of Great Britain (but mainly London, Southampton and Liverpool), and also export traffic.

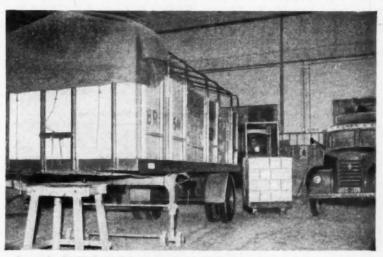
For the home trade, consisting of cardboard cartons, pallets and loose rolls of cellophane, Brady's have provided two

units with York stake and rack trailers, on contract, to prevent unnecessary handling when there are a number of drops. High detachable, slotted sides and built-up floor-boards with a framework over which a tarpaulin roof can be drawn, allow access to any part of the vehicle and avoid the roping and sheeting necessary when flat trailers are used. Up to 14 tons can be accommodated on these trailers.

The present partners are Mr. Brady senior and his wife, Mary Agnes; and their sons, Robert and John James. The business was started by Thomas Brady in 1921, when he borrowed £50 to purchase a horse and cart to carry barrelled beer from railhead to the brewery company's houses in the area. By the 1930s he was operating more than 20 horses on general haulage.

The horses and lorries were mainly on work for Vickers-Armstrongs during the war, and in 1944 Brady's obtained their first motor-vehicle, a 5-ton Bedford tipper under permit, which worked 24 hours a day for Barrow Steel Works.

In 1945 they obtained their first three B licences, for two Dodge tippers and an Austin flat, and moved to Central Garage, Duke Street. These licences were obtained in face of strong opposition, a charabanc load of objectors



One of the stake and rack trailers during loading by a lift truck at the British Cellophane works. The Thames oiler is also being loaded.

making the journey to Kendal for the hearing before the Licensing Authority. By 1947 they were able to obtain three additional B-licensed vehicles—two Dodges and one Austin—for general work over a radius 25-50 miles.

Even in those early days Brady's were adopting the modern practice of operating vehicles to their full economic capacity. In 1947, Bob Brady, in the process of carrying out a tyre check with normal 34 x 7 in. Dunlops, covered 47,000 miles in five months with a 5-ton Austin long-wheelbase tipper, before replacements were required. The vehicle was operating daily from Barrow to Sellafield, Workington and Whitehaven with oxygen cylinders for British Oxygen, Ltd., starting at 5 a.m. It returned to Barrow and took D.A. gas empties to Walton, Liverpool, returning with full cylinders by midnight, ready for the following day.

In 1950 a Dodge was put on contract with Thomas W. Ward, Ltd., carrying scrap metal to all parts of the country.

Real expansion started with denationalization, and between 1955 and the present day, 10 special A licence vehicles were acquired. During the rail strike in 1955, Barrow Steel Works, which depended on the flow of scrap from the three docks at Barrow by rail wagon, appealed to Brady's for help. They procured three worn-out Dodges and patched them up. Ship scrap at that time was cut into pieces 6 ft. x 2 ft. and slung by crane, six pieces a time, into steel wagons. Brady's contrived to keep a flow of 150 tons a day going for three weeks, despite the use of a 2-ton magnet for unloading, which gradually reduced the vehicles themselves to scrap.

In addition to special A licence purchases, Brady's took over the business of M. A. Martin, Dalton, with two vehicles, in 1957; that of J. Wardley and Sons, Milnthorpe, two eight-wheelers on A licence, in 1959, and they also

acquired an eight-wheeler on special A licence from Lawson and Ellis, Clitheroe, in the same year.

The present fleet stands at eight eight-wheelers and eight articulated units on A licence, two articulated units and a tipper on contract A licence, and two articulated units and four tippers on B licence. There are 19 spare articulated trailers and three draw-bar trailers. The majority of the heavies and articulated units are of Leyland origin and the tippers are Dodge.

B.T.C. Four-in-Line trailers have been tried over the last seven months and have given excellent service. Brady's are impressed by their performance and the effectiveness of the special-trailer brakes, both air and vacuum, acting on the rear wheels. There are now 12 in the fleet, and two a month are on order for the next six months.

Leyland service after sales is also much appreciated. Only a three-year life for articulated units is visualized, but Leyland and Dodge rigid vehicle chassis are regarded as suitable for complete rebuilding.

Thirty drivers, five fitters and an office staff of five are employed and there is no room for slackers or clockwatchers, but payment is in proportion to work done. All drivers' cabs on new vehicles are fitted with heaters, wireless and sun visors.

The growth of the business has rendered the present depot at Duke Street obsolete, and plans are in hand for the construction of premises at the present and at an adjoining site.

Regular trunk services are operated between Barrow and London and there are daily services to South Wales, Southampton and Liverpool. With the growth of their London business amounting to more than 50 per cent. of the whole, Brady's are seeking suitable premises for a depot in the Metropolis.

# Export Peak Again

A LTHOUGH the exports of new commercial vehicles reached an all-time high level of 14,929 units last November, this figure was exceeded in the following month when Great Britain exported a total of 15,046 vehicles which represented a value of over £12m. This brought the total for the year to 154,987, valued at £114,130,284, which well exceeds the 1959 total of 128,069 units.

Totals of commercial vehicles sent to leading markets last year, with 1959 figures in parentheses, are as follows: Australia remained as this country's best market, taking 20,437 (14,914) to a value of £12.3m., and South Africa took second

place, having bought 7,602 (8,691) vehicles to a value of £5.5m. Then came Denmark 7,508 (8,721) at £4m.; Finland 4,120 (4,594) at £3.9m.; Ghana 3,515 (3,015) at £3.9m.; New Zealand 7,716 (6,386) at £3.6m; Nigeria 5,196 (5,003) at £3.6m.

In the first 11 months of last year, British imports of new commercial vehicles were: France 93; U.S.A. 31; Western Germany 2,476; Italy 4; and other countries 45. A total of 2,904 units were imported during 1960 to the value of £1.4m.

Compared with 370,484 vehicles made in 1959, the 1960 figure of 457,972 indicates a much higher demand from the

#### PRODUCTION-DECEMBER, 1960

Type	Dec	JanDec	
15 cwt3 tons	21,440 8,714 6,358 7,185	221,180 91,067 61,784 64,893	
Totals	. 43,697	438,924	
Passenger vehicles Motorbuses, single-deck, double-deck. Trolleybuses	183	16,826 2,210 12	
Totals',	. 1,813	19,048	
Grand Totals	45,510	457,972	
Weekly average	. 9,102	8,907	
		1	

home market. Last year's production is detailed in tabular form on this page, together with export statistics.

Production in 1959 comprised 353,105 goods vehicles, tractors and special types. Of these 185,029 were of up to 15 cwt. carrying capacity; 68,580 of 15 cwt. 3 tons; 50,589 of 3-6 tons; and 48,907 over 6 tons. In the passenger-vehicle category, the output of double-deck motorbuses rose from 1,990 in 1959 to 2,210 last year, whilst trolleybus production slumped from 69 to 12. The number of single-deckers rose by 1,506 to 16,826, but this figure is loaded with 8-14-seat light buses, many of which are registered as private cars. In fact, only 384 8-14-seaters were newly registered as hackneys in the first 11 months of 1960.

#### NEW COMMERCIAL VEHICLE EXPORTS-DECEMBER, 1960

Туре	December		January - December	
	No.	Value £	No.	Value £
Goods vehicles, complete and chassis assembled and unassembled Motorbuses and trolleybuses, complete	13,269	8,778,239	137,959	89,283,615
and chassis	809 46	931,456 158,272	6,386 609	10,317,663 1,415,309
Other descriptions, complete and chassis  Dumpers and dump trucks	129	437,672 262,784	1,174	2,996,976 4,071,911
Industrial trucks	793	336,993 291,132	8,859	2,925,507 3,119,303
Totals	15,046	12,096,548	154,987	114,130,284

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is not in use. The fixing bolt is incorporated in the lamp, and as the rim is reversible, the fixing can be positioned either at the top or bottom as required.

Available through the sole distributors of Cibié products in the United Kingdom -L.M.B. Components, Ltd., Weyford House, Woodbridge Meadows, Guildford, Surrey-the price of the fog lamp is £4 5s. complete with bulb and the detachable metal shield.



The Cibié "Oscar" fog lamp shown with the detachable shield which is kept in place on the lamp by means of the rubber strap.

It can also be used, diluted, on the

renovation of damaged plasterwork and

concrete floors, as a sealer for porous

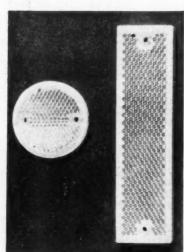
surfaces before painting, and also as a seal against the inter-blending or dis-

coloration of paints or enamels over bitumen coatings, tar or other solvent paints. Romanite 248 is available for

delivery ex stock in 2-, 5- and 10-gal.

#### Cleaning Equipment Brochure

NEW brochure entitled "Mobile A NEW brochure entitled "Mobile Aids for Cleaning" has been pro-duced by Powell and Co., Burry Port, Carmarthenshire, South Wales. Included in the brochure are details and illustrations of Powell Clean-Aid equipment, which includes sweeping-up barrows, bin carriers and a mop-bucket fitted with a wringer.



Examples of the all-plastics reflectors now made by Fairylites Ltd.—the circular Model 590 and the rectangular model.

#### New 3-cu.-yd. Dumper

THE new Muir-Hill 14B concrete-carrying dumper, announced by E. Boydell and Co., Ltd., of Old Trafford, Manchester, has a liquid capacity of 3 cu. yd., and is able to deal equally well with concrete of varying moisture content.

Designed to carry concrete between batching plant and placing point, the 14B dumper is said to be suitable for the feeding of pavers and mechanical and

tamping equipment on road construction projects, where the hauling distance is often too short to warrant the use of agitators or mobile mixing plant.

A tipping height of 4 ft. 1 in. under the body lip is provided, a height suitable for discharge into standard 1-yd, and 2-yd, concrete Tremie buckets and concrete pump hoppers. A discharge chute can be supplied with the machine to facilitate placing at ground level.

Power is provided by a Perkins P6 diesel engine and there are four forward and four reverse gears, giving speed ranges of from 3.25 m.p.h. to 17.1 m.p.h. and 2.31 m.p.h. to 12.2 m.p.h. respectively.

#### Plastics Reflectors

CIRCULAR and rectangular reflectors made entirely of plastics and intended for use on commercial vehicles are now manufactured by Fairylites, Ltd., Chalex Works, Southwick, Sussex.

The circular model is available in three forms; Model 590-with a two-hole fitting and a 2½-in.-diameter reflector; Model 652—with a flange fitting and 23-in.-diameter reflector, and Model 552 which is similar to Model 652 but has a reflector of a different grade.

The rectangular model has overall dimensions of 71 in. by 2 in. with a reflective surface of 7 in. by 11 in., and has two holes for fixing purposes.

#### New Adhesive

A WIDE range of applications is possible with Romanite 248, a new adhesive manufactured by the Liverpool Borax Co., Ltd. (Andrew Maxwell Division), Maxwell House, St. Paul's Square, Liverpool, 3.

In addition to its ability to provide a bond between a wide variety of materials, including leather, fabrics, laminated plastics, glass and metal (it should not be used on p.v.c., polythene or rubber), Romanite 248 can be diluted with water for use as a dust preventative and sealer on concrete and other types of floor which are liable to give off dust.

#### drums from the manufacturers. Long-distance Warning Light

N addition to the range of self-A addition to the range lamps contained portable warning lamps made by Notek, Ltd., Bromley, Kent, is the Model III Flaremaster. Only 12 in. high and 5 in. in diameter, the Flaremaster III is a long-distance warning light in which the beam is amplified by a 21-in, mirrored reflector to give a range in excess of

one mile. The lamp has a flash rate of approximately 75 per min., flash duration being } sec. A red or blue Diakon lens, 31 in. by 3 in., is available. The casing is made of brass, bonwhich is derized and stove enamelled, and is said to be completely weather-proof. Price is £4 net, battery 3s. 9d.



#### Testing Equipment Catalogue

THE new catalogue from Crypton Equipment, Ltd., Bridgwater, Somerset, gives details of all this company's engine-testing and tune-up equipment.

#### French Calendar

A Government VAILABLE from the Tourist Office, 66 Haymarket, London, S.W.1, is a 48-page booklet entitled Calendar of Events, France 1961, which should be of interest to operators of Continental coach tours.

Included in the booklet is information and dates of a wide range of events.

# LIFT WITH CARE

In Handling of Bulky or Heavy Objects Six Basic Principles Must be Observed

THE human body can be regarded as a hydraulic machine of extraordinary complexity and brilliance of design. For its weight and overall dimensions, it will perform the most astonishing range of tasks and it will give first-class service when properly maintained for upwards of half a century. When overworked it shows an inbuilt tolerance far superior to that of a machine tool, and it possesses a happy knack of compensating for its own deficiencies.

Nevertheless, if it is subjected to a strain that it was never intended to support, it will give trouble. Some such strains are caused by exterior forces, such as arise in a motoring accident or war. Others are self-inflicted by the individual, in the home, at work or in games. Injuries of the latter kind are so numerous as to be almost impossible to enumerate, but certainly they account for millions of lost man-hours annually. Frequently they have an indefinite character, afflicting the patient months or years after the prime injury was sustained.

Painful conditions of this type include muscular strains, ruptures, backache, fibrositis, rheumatism, fatigue and the fashionable slipped disc. All these things remove the zest from living and in most cases their causes are avoidable. Hospitals and clinics have more than their fair share of patients suffering from strain and muscular malfunctions, many of which are not curable in a week.

Unhappily, road transport men are



(Left) Drum handling:
Use bodyweight to save
muscular effort (top
muscular effort (top
illustration.) To pull
drum over, first relax
front knee, then pu
other foot well back to
safeguard balance.
The bodyweight acts
as a counterbalance.
(Right) Stowing and
stacking: When stacking to high level make
legs do the work.
Relax both knees when
approaching the stack
and thrust upwards
with a swinging movement, one foot following through.



by no means immune to these strains, possibly because in the normal way, a driver is not required to lift heavy weights. And when he is, lack of familiarity with the problem leaves him wide open to doing himself an injury.

The volume of troubles directly caused by inefficient weight-lifting is so great today that the Royal Society for the Prevention of Accidents finds it worthwhile to sponsor an annual campaign to point out the dangers and to indicate the ways in which strains can be avoided. In conjunction with Mr. T. McClurg Anderson, of the Institute of Human Kinetics, they have produced a mass of material for distribution in the home and factories. Posters, booklets, leaflets, even beer mats and paper napkins for use in the works canteen, are all available from Ro.S.P.A. at Terminal House, 52 Grosvenor Gardens, London, S.W.1. Last year, the publicity centred on the theme, "Correct Handling Eases Effort"—and so it does.

To achieve smooth and easy handl-

ing of all bulky or heavy objects there are six basic principles which should be learned and put into practice. All are essential, none more important than others, and none-demands the highly developed muscles of the professional weightlifter.

First, get a good grip on the job. Use the palms and the roots of the fingers and thumb. It takes twice the effort to hold a load with the finger tips and their muscles are too small and sensitive to handle anything but the lightest weights.

#### **Back Straight**

Next, keep the back straight and lift with the powerful leg muscles, relaxing the knees. A straight back prevents damage to the dorsal muscles which were never intended to do heavy work. If the load has to be hoisted, raise the top of the head slightly and tuck the chin in. This movement helps to maintain a straight

Balance is important, too, and it is the position of the feet that determines its effectiveness. Stand with the feet apart, but no wider than the hips, with one foot forward in the direction you intend to take.

The arms should be held close to the body, which then takes the weight instead of the finger, wrist, arm and shoulder muscles.

Finally, use the body as a counterweight, keeping one foot back to prevent over-balancing.

These six rules, applied smoothly, without jerk or snatch, give one the power to deal with all the loads that the human frame is intended to handle. For anything heavier, it is a wise man who sends for his mate, finds a roller or lever, or demands the assistance of a fork-lift truck.





(Left) Box handling: Grip with the palms to reduce finger strain. Keep back straight. Position feet as shown (bottom drawing) to maintain balance and to give a strong thrust forward and upwards of back foot. Legs do the lifting. (Right) Pushing and pulling: Tuck chin in, keep back and arms straight. In pushing the front foot balances you, the rear foot giving thrust. In pulling the reverse is the case, with knee bent to allow body



Political Commentary
By JANUS

**ISOLATION** 

SOLATION from the continent of Europe has its disadvantages, but there are points in its favour as well. The transport situation there is complex, sometimes bewildering and not always kind to the road operator. There are any number of international and supranational organizations with considerable influence and in one or two cases considerable power. Their decisions have to be given close and respectful attention in a community that still contains many sovereign states but is gradually becoming more closely knit together.

The course of British transport since the war has at least run in accordance with a simple and easily recognizable pattern. The tendency towards a single authority with a virtual monopoly has first been checked and has then flowed steadily in the opposite direction. The White Paper on the reorganization of the nationalized transport undertakings marks the latest stage. It is surprising that in some quarters there is still doubt about its significance.

Even within the Conservative party the old lines of thought persist. There is general agreement that integration of transport is discredited, but no clear idea of what exactly has taken its place. The Government, it is felt uneasily, have no overall policy into which their deeds, many of them desirable in themselves, can fall neatly into place. For example, expenditure of £150m. on railway modernization in a year may be admirable, and so may expenditure of £100m. on new and improved roads. But who fixes priorities and who decides the railways are worth an investment one and a half times that spent on roads?

THE answer is perhaps too simple to be acceptable at first sight. Although the Government certainly have some kind of general plan for transport, such a plan is no longer their chief concern. They have a separate aim for each form of transport. The White Paper and repeated statements by the Minister of Transport make plain the determination to keep the railways in being as a "vital basic industry." Equally clear is the intention to encourage road transport, even if the performance in road building lags sadly behind the promise. To complete the picture, there are also plans for the canals and for air transport.

At this stage the Government might not be prepared to admit in so many words that they no longer see transport as a single problem but as a number of problems whose interrelationship is not their most significant factor. Such a bald statement would seem too much like an excuse to prepare the way for the spectacle of the railways as a permanent State pensioner.

In any case there is scarcely need to adumbrate a political philosophy for what has so far been done or proposed. Even the Labour party agree with a good part of the White Paper, including the important financial provisions. Although any idea of integration has been finally discarded, no bar is proposed on the closest possible inter-working between road and rail. Licensing restrictions on road haulage are to remain and nobody has the least relish for an experiment to see what would happen if they were abolished.

The revolution in thought has been silent and bloodless, and so far as one can see it has been wise. It hardly seems a possibility for Continental countries. Whatever the economic benefits of the groupings that have taken place in Europe, from the transport point of view they certainly

seem to be at sixes and sevens. Every country sees the theoretical advantages of a general transport policy for the Continent, especially where there is a considerable interchange of traffic, but agreement on the policy seems to become more difficult as time goes on.

Even technical and mechanical points present their problems. Lengths and widths of vehicles, lighting, trailer couplings and maximum permitted weights have all been the subject of discussion. On many of the points the main obstacle may well have been the reluctance of countries with heavily protected railways to allow too many concessions to road vehicles. The difficulties do not appear insurmountable but they become much more serious when attention is turned to the operation of the vehicles.

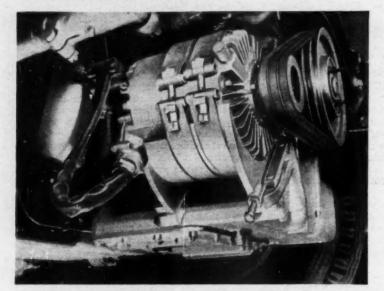
In some European countries, notably Western Germany, severe restrictions are imposed on road transport for the benefit of the railways. Among other things, rates for road haulage are determined by law. This may seem purely an internal affair of the country concerned, but it so happens that fixed statutory rates, or something very much like them, are among the principles laid down for the European Economic Community.

The reasoning is sound. If countries are to work closely together, with considerable interchange of traffic and progressively fewer Customs barriers, there must be no hidden subsidies such as could be provided by artificially low rates. Therefore they must be the same for all traffic between two countries. From this it is only a step, perhaps an inevitable one, to the compiling of rates schedules even for traffic within national boundaries.

In addition to E.E.C., the question of nationally or internationally controlled rates has occupied the attention of the International Chamber of Commerce and the International Road Transport Union. As may be expected, the C-licence holders or carriers on own account who comprise section 1 of I.R.U. are not in favour of fixed rates and there is also strong opposition from many of the hauliers in section 2.

BRITAIN'S road haulage representatives on I.R.U. have always made their position clear. A rigid rates system would badly handicap them in competition with the railways newly enjoying their freedom from rate restrictions of any kind. Hauliers would also find difficulty in meeting the challenge presented by the C-licence holder. Flexibility in charging is a mixed blessing so far as hauliers are concerned, but is often of great help to them in the shaping and expansion of their businesses.

Decisions of I.R.U. are not binding on the governments of the countries represented. This is fortunate for British operators. When they hear of the complicated negotiations that take place on the Continent, they should be pleased that they are on the periphery. The Minister of Transport is aware of what is happening in Europe. There is a European Conference of Ministers of Transport, set up in 1953, mainly for the purpose of co-ordinating policy. Most of the countries represented, it must be admitted, have a difficult enough task in co-ordinating their own transport. Away from the main stream, Britain under the Conservative Governments has been able to work out her own pattern comparatively undisturbed by what the neighbours think. Transport users in Britain may well have gained from this



# ALTERNA'. ADVANTA

L.T.E. Routemasters have A.C. equipment, and this picture shows an experimental installation of a C.A.V. A.C.8-type alternator. The triple V-belt drive will be noted.

Use of A.C. Give Improve formance, Red Increased Bat Makes of E

NE of the hardest worked—and often most sadly neglected—components in a modern commercial vehicle is the battery. This is particularly so in the case of public service vehicles, some current examples of which rely on electrical power not only for starting and lighting, but also for gearchanging, door operation and even advertising display panels, not to mention installations such as heaters/and—in coaches—radios.

It is small wonder, therefore, that despite the big advances that have been made in battery design during the last decade, battery failure can be a pressing problem for many operators, besides being a headache for designers in respect of providing adequate stowage for the large batteries required to meet present-day needs.

That this somewhat depressing picture can be changed by significant, but nevertheless miraculous, little devices known as semi-conductor diodes and transistors is a remarkable testimony to the practical application of modern science. Yet it is the semi-conductor which is making it possible for A.C. generators to be installed in commercial-vehicle chassis, installation which would have been impracticably bulky, heavy and expensive with the rectifying equipment available a few years ago.

As it is, by using semi-conductor rectifiers and transistorized control equipment, A.C. installations may easily be applied to new and existing vehicles with a direct saving in weight, a foreseeable saving in cost and an increase in efficiency, depending on alternator design.

The potential success of alternating-current generating systems arises from one basic deficiency of the D.C. generators almost universally used on road vehicles. This deficiency is that the maximum speed of a D.C. generator can rarely exceed 5,000 r.p.m., above which speed commutation difficulties arise, which lead to rapid brush deterioration, high commutator temperatures and excessive brush-contact losses.

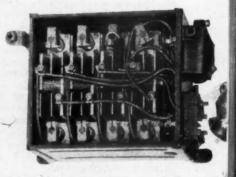
Because of this speed limit the ratio of the drive between the engine and the dynamo has to be based on this 5,000 r.p.m. maximum, which means that at engine-idling speed the dynamo is rotating so slowly that its current output is insufficient to feed the battery. As public service vehicles nowadays spend a high proportion of their operational time with their engines idling, it follows therefore that battery over-working and under-charging are unavoidable evils of a D.C. system.

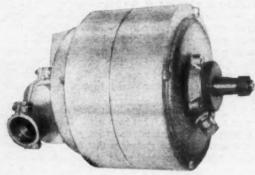
An alternator, however, can operate at speeds well in

excess of the 5,000-r.p.m. limit imposed on a D.C. unit—speeds of 10,000 r.p.m. are feasible—thus its drive ratio can be such that even at engine-idling speed a high current-output can be obtained, whilst in any case an A.C. generator provides output over a wider speed range than a D.C. generator.

This fact has obviously been realized for many years and—as any school-boy knows—an alternator is a lighter, more compact and considerably more simple piece of equipment than a D.C. generator. Alternating current, however, cannot be used to charge a conventional battery, although it can, of course, be used for lighting purposes. For vehicle applications, therefore, conversion of the A.C. to D.C. is essential, and it is this conversion (rectifying) which has been the stumbling block.

(Right) The Simms rectifier unit contains eight germanium diodes mounted in blocks of cooling fins. Two of these are connected in perallel to form a blocking diode in the control circuit. The rectifier weighs 17 lb.





(Left) A weight 45 lb. is quoted the Simms 8-in. meter alterna, which delivers amp. at 27.5v. equipment is fitt Routemaster ver and can run at 18,000 r.p.m. for periods.

# TOR

Generators Can ed Electrical Perduced Weight and tery Life: Three uipment Available Britain

> by John F. Moon, A.M.I.R.T.E.

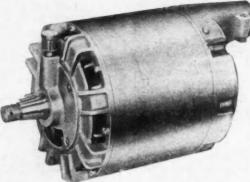
> > Thus, the 30 per cent. increase in generating capacity which it has been proved is necessary for the modern passenger vehicle in foggy weather (accentuated low-speed condi-

tions) is available without having to resort to the development of new and larger types of D.C. generator.

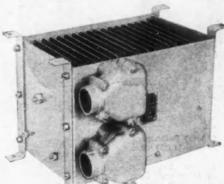
The advantages of A.C. generating systems can be summed up as follows, therefore. They are easy to apply to existing vehicles-in many cases easier than lowercapacity D.C. units; there is a reduction in weight and bulk; the battery can be charged constantly, irrespective of engine speed; the equipment involved is more simple (with a transistorized control board the only moving component is the generator rotor); battery life is extended; smaller-and therefore lighter-batteries can be used for the same function; and the overall life of all the units should be greater than that of the components of a D.C. system.

As it is so rare these days to get anything for nothing, it easy to imagine people interested in A.C. equipment

> (Left) The control board used with the Simms A.C. generator is fully transistorized and has a printed cir-cuit. The hinged metal base plate carries two power diodes, the plate serving as a heat

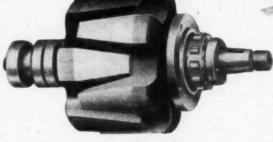


(Right) For use with the C.A.V. 7-in. alternator, the RUS-6 selenium rectifier has been developed. This unit weighs 20 lb., and is open at top and bottom for cooling purposes.



(Left) The C.A.V. AC724-2 alternator

has a nominal diameter of 7 in. Its self-limiting output is 60 amp. at 27.5v. and it weighs 373 lb.



(Left) This illustration is of a typical imbricated-pole rotor, showing the two sixfingered, cup-shaped claws mounted on the shaft to form a 12-pole assembly

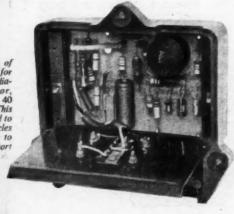
saying, "Ah, but what about the price?" For a change, the initial cost involved with some A.C. units is already under 5 per cent, greater than that of the nearest equivalent D.C. gear-which, size for size, would not provide the same output in any case. Once electrical manufacturers are able to put the equipment into quantity production (which presents no problems once sales are assured) a complete A.C. set should be cheaper than existing D.C. sets.

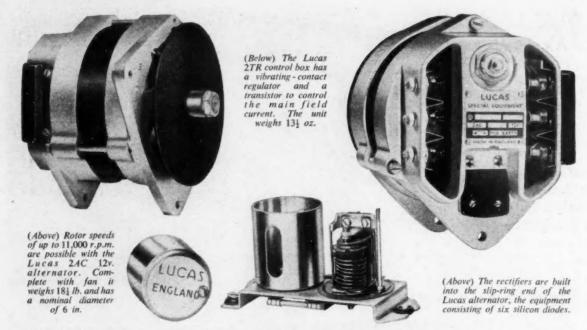
So much for the price question. As to the potential market, this is by no means restricted to passenger vehicles. Police cars, fire appliances, ambulances and taxis are all vehicles normally fitted with two-way radio apparatus which helps to add to the load on the vehicle battery. Stop-andstart delivery vans-particularly those with illuminated name boards-are also vehicles which subject their batteries to heavy loadings, whilst yet another series of applications is to be found on agricultural and forestry vehicles, including powering hand tools.

Police cars provide an interesting example of light vehicles requiring excessive electrical power. Not only do these vehicles have the normal lighting and starting systems, but additional equipment includes interior heaters, "Police" signs, bells, loud-hailers and two-way radio. Many police cars have already been equipped with A.C. generating gear, those with D.C. having to incur the penalty of carrying two batteries to cope with the maximum likely loadings.

With most A.C. generating sets three separate pieces of equipment are required-alternator, rectifier and control board-although the Lucas equipment for cars and light vans combines the rectifier with the alternator, and this is a development likely to take place soon on higher-capacity alternators, so simplifying the equipment even further.

There are three types of alternator-the inductor, the salient-pole and the imbricated-pole types-but only the





imbricated-pole alternator is employed on British vehicles. Whilst, on the face of it, the inductor alternator would appear most attractive from the production viewpoint because of its lack of slip-rings and because it has both field and output windings on the stator and only laminated pole projections on the rotor, it has one serious disadvantage in that the flux embracing one output coil changes only from zero to maximum, and does not reverse as in the excited-rotor alternator.

Therefore the inductor alternator can provide only half the voltage of an excited-rotor machine with the same flux density in the air gap, consequently the volume of the machine would have to be comparable with that of the D.C. generator it was designed to replace.

Because the vibrating-contact regulators at present in use with D.C. systems can handle a maximum of only 2 amp. at 24v., such regulators could not be used with salient-pole alternators, but they can be used without modification to control the field current of imbricated-pole machines, the value of which would be 1.5 amp. compared with, say, 5 amp, for the salient-pole type. Even the use of transistorized regulators, which can deal with greater field currents, would still not necessarily lead to the adoption of salient-pole equipment because an imbricated-pole generator is the cheaper of the two to produce.

#### Imbricated-pole Rotor

The construction of a typical imbricated-pole rotor can be seen from the photograph on page 157. The two identical rotor claws, which can be either cast or forged, are attached to the core by short bolts and completely enclose the field coil. These two claws and the tubular core, which is shrunk on to the shaft, comprise the magnetic circuit of the rotor.

The stationary yoke or stator contains the heavy-current windings of the alternator, these being equivalent to those in the armature of a D.C. generator. Because these windings are stationary, however, the current generated in them can be fed directly to the output terminals-a very much more simple and trouble-free course than that applying to the commutator of a D.C. machine.

Similarly, by this construction, heat generated in the windings is easier to dissipate, giving rise to cooler running

conditions, whilst in any case the A.C. unit is not subjected to the temperature-rise limitations imposed by the commutator and its soldered connections in a D.C. generator.

There are only two electrical connections between the slip rings and field coils in an A.C. machine, and these can be effected by brazing. Brazing can be employed at the connections between the copper strips in the stator windings also, so the maximum permissible temperature for the windings of a totally enclosed alternator is often limited only by the temperature which would melt the grease in the bearings.

#### **Forced Cooling**

Many alternators of a size suitable for heavy-vehicle applications have a built-in fan to force cooling air through the interior of the machine. To avoid the possibility of the slip rings becoming dirty, they can be located in an enclosed compartment outside the ventilated body of the machine. The output of an alternator can be changed considerably according to the amount of ventilation provided, a through-ventilated machine producing up to twice the current of a completely unventilated unit.

Alternators can be expected to show appreciable savings in maintenance costs compared with equivalent D.C. generators, a major item in the overhaul of the latter type of equipment being commutator skimming and brush renewal. The deposition of carbon in the interior of a D.C. unit lowers the insulation resistance and this in itself presents a major cleaning problem, all of which are troubles to which an alternator is not liable.

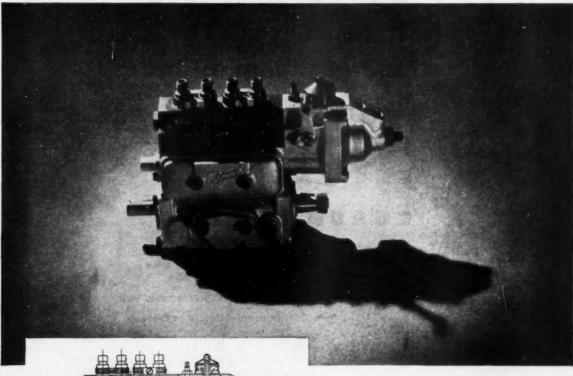
Although alternators were used on Model T Fords, this vehicle had no battery and therefore its lights and so forth obtained alternating current directly from the generator. This layout was admirable for its simplicity as it eliminated the need for a rectifier. Unfortunately, batteries are now indispensable, therefore a rectifying unit is an essential item in any alternating-current system.

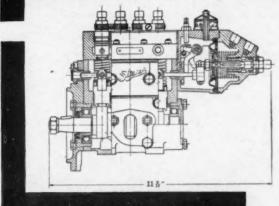
As alternators used in vehicles are wound for threephase operation, the rectifiers employed are three-phase, full-wave units with six, or multiples of six, rectifier cells, for which semi-conductors are invariably employed.

(Continued on page 159



MINIVAC (the vacuum governed Minipump)





The smallest and lightest of in-line fuel pumps. It involves no unknowns and no untried principles. Its design is based on world-wide experience with this type of pump. And 40 years' experience of in-line pumps gives them world-wide serviceability.

#### Some points in the design

Separate pump-body and cam-box (as in all Simms pumps) simplifies maintenance · Pump body machined from steel, hence no porosity · Outlets threaded steel in steel; finer threads allow closer spacing of pumping elements; hence a shorter, stiffer camshaft and a shorter, stiffer pump admirably suited to flange mounting · It has wide cam tracks and tappet rollers · Pumps are available for engines with 3 cylinders up to 4½ litres; 4 cylinders up to 6 litres; 6 cylinders up to 9 litres.

SIMMS MOTOR UNITS LIMITED . EAST FINCHLEY . LONDON . N2

E19

# MILEAGE ... RELIABILITY... SAFETY...

you get them all in

# DUNLOP

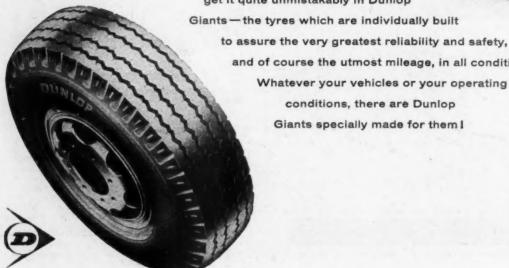
BUS AND

COACH TYRES

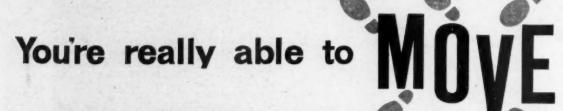
Long trouble-free mileage is allimportant in bus or coach operation and you get it quite unmistakably in Dunlop

> Giants - the tyres which are individually built to assure the very greatest reliability and safety, and of course the utmost mileage, in all conditions.

> > conditions, there are Dunlop Giants specially made for them!









this roomy

12 seater runabout

You really can move about in the Bedford long-wheelbase Utilabrake. It's an extra roomy personnel carrier, a comfortable maid-of-all-work built especially for that bothersome job of transporting a dozen or so people. In the Utilabrake there is easy access to 6 facing-forward and 6 facing-inward fully-upholstered seats. More, there's ample leg room for driver and passengers, generous space for luggage and equipment, big windows for safe, all-round visibility. You haven't—can't have—a small party transport problem that the Utilabrake can't solve.

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IIIIII AKKAI

ONE OF THE FAMOUS DORMOBILE RANGE.

WHEELBASE BEDFORD

There is a choice of three materials for these semiconductors: selenium, germanium and silicon, the material employed depending upon ambient temperature, ventilation, space availability and initial cost.

Although selenium suffers from a few disadvantages, the bulkier design of a selenium unit gives greater heat capacity and the ability to tolerate over-currents and high temperatures for short periods. This type of rectifier is used by C.A.V., Ltd., whose RUS-6 rectifier contains six dry-plate selenium elements.

Simms Motor Units, Ltd., employ germanium diodes in their rectifier, whilst rectification in the case of the smaller Lucas equipment is carried out by silicon diodes built into the slip-ring end of the alternator and cooled by the air flow through the machine.

Silicon units can operate at higher temperatures than germanium and selenium equipment and they are not subject to ageing. Furthermore, their weight and size are less, but they cost almost twice as much to manufacture as selenium units.

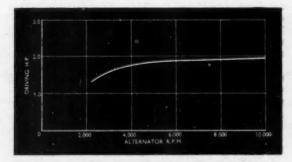
Undoubtedly, silicon is the best of the three available materials, particularly where high-ambient temperatures are likely to be encountered, whilst another big advantage of this material is that a rectifier incorporating it can usually be mounted directly on the alternator itself, thereby permitting the alternator to be connected directly to the battery.

As with conventional D.C. systems, some means has to be provided of regulating the D.C. output from the rectifier to suit the demands of the battery. A conventional vibratory-contact type of regulator can be employed, but the use of transistorized regulators confers the advantage of the elimination of contacts and moving parts, and both C.A.V. and Simms offer this type of regulator.

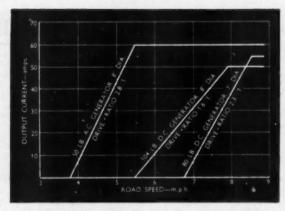
An alternative type of regulator forms in effect a combination of these two systems, and this is favoured by Joseph Lucas, Ltd., whose control box contains a vibrating-contact regulator to control the alternator field current (and hence the output voltage), and a transistor because the field circuit of most alternators is more inductive than that of a D.C. machine and so any direct making and breaking of this circuit by vibrating contacts would involve contact burning and oxidization.

By using a transistor, the vibrating contacts are called upon to handle only a small non-inductive pilot current while control of the main field is exercised by the transistor.

With a full transistor control board, such as the Simms ET unit, the voltage setting at which the system operates is dependent upon the proportion of the generated voltage which is applied to a Zener diode, this proportion being initially adjustable by use of a potentiometer. Current regulation is obtained via the voltage-regulation circuits, but is triggered by using the forward characteristic of a



The power absorbed by the Lucas 2AC generator is shown in this graph. The figures were taken for an output of 45 amp. at 13.5v.



This graph gives a comparison of the performance of three generators of similar output with the vehicle running in third gear.

germanium diode made responsive to the voltage developed across a low resistance in the main current circuits.

The three manufacturers of vehicle alternator systems in this country—C.A.V., Lucas and Simms—have all chosen different sizes of generator—the smallest being the Lucas 12v. 6-in,-diameter unit.

This is the model 2AC which weighs 18½ lb, without pulley. This generator has a maximum running speed of 11,000 r.p.m. and produces 60-65 amp, when cold and 52-57 amp, when hot. Like all alternators, the Lucas unit can be driven in either direction and it can be mounted on either side of the engine. The standard pulley supplied has a diameter of 3 in. and is suitable for a ½-in. top-width belt, although other sizes can be supplied to order. A 6-in, cooling fan is fitted.

#### Generating at 800 r.p.m.

The Lucas alternator can generate at rotor speeds as low as 800-900 r.p.m., whilst even at 11,000 r.p.m. and 45 amp. output it requires under 2 b.h.p. to drive it, this power requirement falling to 1.4 b.h.p. at 2,500 r.p.m. Because the alternator includes an integral rectifier, and because the matching control box weighs only 13½ oz., the complete Lucas alternating equipment weighs only 19 lb. 1½ oz.

The price of this equipment cannot be compared with Lucas D.C. units because at present it is only being made in small quantities and in any case there is no Lucas D.C. equipment with a comparably high output.

Although alternators with nominal outside diameters of 8 in. and 12 in., and outputs of up to 150 amp., are manufactured by C.A.V., Ltd., these are mainly for railway use. Their AC724-2 vehicle alternator is a 7-in. 24v. unit, with a self-limiting output of 60 amp. at 27.5v. The cutting-in speed of the generator is 580 r.p.m., and with a drive ratio of 2.3:1 the output at normal idling speeds (350-400 r.p.m.) will be from 19 to 25 amp. With a ratio of 2.5:1 the output at the same speeds will be from 29.5 to 35 amp.

The generator has a built-in fan and it weighs 37½ lb. Its direction of rotation is reversible and the recommended drive is by three ½-in.-wide V-belts. Power absorption at 2,200 r.p.m. is 3 b.h.p., and the maximum recommended generator speed is 8,000 r.p.m.

A weight of 20 lb, is quoted for the selenium rectifier units designed for use with the AC724-2 alternator, and this rectifier has a casing which is open at top and bottom to provide a natural cooling draught through the unit. Natural draught is suitable for ambient temperatures up to 95° F., above which temperature forced cooling is needed.

Both the vibrating-contact regulator (type 189-59) and the transistorized regulator (type 367-2) weigh 6½ lb., giving a total weight for the complete equipment of 64 lb. This

# High-speed Burst Chamber

20,000 R.P.M. POSSIBLE WITH NEW EQUIPMENT

A RECENT addition to the engineering test facilities of Automotive Products Co., Ltd., Leamington Spa, is a high-speed centrifugal burst chamber, designed in the research department and built and installed by the company's experimental department.

Burst and high-speed proving tests have been a feature of the firm's test programme for some time, particularly on Borg and Beck clutches, using equipment capable of providing speeds of up to 12,000 r.p.m., but this had limitations, both from the speed and size aspects, for future programmes. The new test chamber has, therefore, been designed for a maximum speed of 20,000 r.p.m., and is capable of accepting test pieces of up to 2-ft, diameter, with a limiting weight of approximately 150 lb.

For safety reasons, which are obvious when it is considered that during a test pieces of iron or steel, weighing anything up to 3 or 4 lb., leave the specimen at speeds approaching 250 m.p.h., the test specimen rotates in an adequately protected "hole in the ground," and is driven

by a vertical shaft.

Power for the equipment comes from a Standard Vanguard 2-litre engine and gearbox, flexibly mounted on a subframe, and driving a worm gear unit which converts the horizontal drive to a vertical one at an output pulley below the unit. Drive to the testing unit is transmitted through an endless belt, 3-in. wide and 1-in. thick.

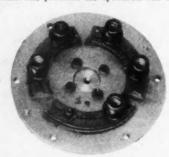
At the high shaft speeds developed bearing problems assume large proportions, and precision angular-contact bearings are used throughout the vertical drive. A gravity-feed oil system is used and to protect this against flying fragments the lower part of the unit below the fixing plate can be enclosed in a ½-in. thick steel casing. The test specimen is bolted to an adaptor plate at the bottom of the shaft and a weakened shear neck is provided between the shaft and adaptor so that if violent out-of-balance forces occur, the neck will fail and prevent damage to the main shaft.

When large and heavy specimens are tested air friction losses can prevent normal rates of acceleration, and to overcome this problem the specimen can be



The vertical drive unit is here seen suspended over the bursting pit. The railway sleepers which line the pit can be seen, and also the 2-in, thick steel cage which is used when specimens of fragments are not required.





A 6½ in. Borg and Beck clutch that has failed under extreme centrifugal stresses. The clutch was rotated at speeds of up to 14,000 r.p.m. before the pressure plate disintegrated.

encased in a thin steel shell from which the air can be evacuated. The test specimen can be adjusted after the main plate has been bolted down from an access chamber at the side of the pit.

The instrument and control panel for the equipment is in a separate room to that in which testing takes place, for reasons of safety, and once a test specimen has been set up there is no need for the operator to leave the panel until completion of the test.

Many successful tests have already been carried out, the most strenuous being on a special 18-in-diameter clutch, which with its adaptor weighed nearly 200 lb.—this unit was burst without any damage to the rig or its surrounds.

Alternator Advantages (contd.) compares very favourably with the weight of C.A.V.'s nearest equivalent D.C. equipment, the dynamo for which alone weighs 80 lb., whilst the control board

weighs 9 lb.

Simms make use of an 8-in.-diameter alternator, giving 40 amp. at 27.5v. This unit weighs 45 lb. and is available with both cradle and swing mountings. The cutting-in speed at 24v. is 550 r.p.m., and the minimum full-load speed at 27.5v. is 850 r.p.m., the preferred drive ratio being 2:1, because the maximum permitted continuous speed on full load is 4,500 r.p.m.

As used on London Transport Routemaster buses the drive ratio is 2.3:1, so that at an engine-idling speed of 400 r.p.m. the alternator output is 40 amp. For normal requirements the maximum rotor speed is 6,000 r.p.m., although the alternator can run at up to 8,000 r.p.m. for short periods. At 4,500 r.p.m., the alternator absorbs 2.6 b.h.p.

The Simms ER rectifier designed for use with their alternator has eight germanium power diodes, six of which form a three-phase bridge rectifier, while the remaining two

serve as a blocking diode which functions in the same way as the cut-out of a conventional charging system. The diodes are mounted on aluminium cooling fins, and the sides of the rectifier box are open at top and bottom to promote air circulation. The unit weighs 17 lb.

The Simms ET control board, in addition to having transistors throughout, also has a printed circuit, which saves space and minimizes the likelihood of circuit failure. This unit weighs  $2\frac{1}{4}$  lb., so the complete A.C. equipment weighs  $64\frac{1}{2}$  lb., compared with a total of 96 lb. for the nearest equivalent Simms D.C. equipment.

Thus, it will be seen that all the A.C. equipment available on the British market effects considerable saving in weight whilst providing greater output when compared with conventional D.C. apparatus. Although it will not always be possible to reduce the size of the battery, savings of up to 1 cwt. may be possible here.

A.C. generators will undoubtedly find increasing use on British vehicles, as they are already doing in the U.S.A. and the Soviet Union. Their advent should be acclaimed, as there is nothing to lose and everything to gain by their adoption.

# Ford's Golden Year

A GOLDEN anniversary, celebrating 50 Golden Years . . . That is the proud claim of Ford of

Dagenham in 1961.

Ford of Dagenham. . . . It reads like an entry in Debrett. A title earned for services rendered throughout 50 of the most turbulent years in Britain's history. Turbulent years for Ford, too, years of great change, socially and economically. Years in which Britain, and the world, have seen Henry Ford's faithful old Model T transformed into the impressive range of cars and goods vehicles.

Anniversaries are always a time of looking over the shoulder, of turning back the clock and living through again the periods of trial and tribulation, and the triumphs and exultations. That is what they'll be doing at Dagenham this year. So let us look over their shoulders, at the pictures the many long-service Ford men will see, and catch a brief glimpse of the immense story of Ford in Britain. From the beginning. . . .

London in the gay '90s, the social and cultural centre of the world. The gracious, stately Victorian era was drawing to a close. But the Gaiety girls and the stage-door Johnnies danced on, clip-clopping their leisurely way in carriages and pairs through the streets of gas-lit London.

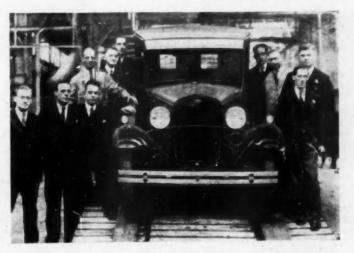
#### Man of Vision

Yet the "horseless carriage" had already made its noisy stuttering entrance. Horse-drawn goods wagons were on the way out. The people shook their heads and said: "What is the world coming to?" Just as they are saying it today as men of vision and courage prepare for the first journey into space.

In 1894, such a man, Percival Lea Dewhurst Perry, arrived in London from Bristol in answer to a newspaper advertisement for someone to do "hard and useful work, drudgery if necessary." The advertiser was Mr. Harry Lawson, who was later to do much to pioneer the foundations of the British motor industry.

Perry learnt a great deal about the motor trade from Lawson, who was then developing the road rights of the Daimler Company. And from him, through "hard and useful work," Perry acquired an enthusiasm that was to result in the creation of Ford of Dagenham.

The pictures turn to 1903, and the setting up of the Central Motor Car Company in Long Acre, London, where a brisk trade in Model As was built up. But some years were to pass before Perry



It's the first vehicle coming off the production line at Dagenham—a model A, 30-cwt. truck. The year: 1931.

eventually persuaded Henry Ford to open a London branch of the Ford Motor Company. Which brings us to the beginning, so far as Ford in Britain is concerned.

The first premises, in Shaftesbury Avenue, London, were soon outgrown, and Perry found the bigger site he needed in Trafford Park, on the outskirts of Manchester.

# Charles M. Hendy

The year was 1911, a golden year if ever there was one, for the sun shone endlessly from cloudless skies, and a new age was dawning. It was on March 8, 50 years ago next Wednesday, that the papers were signed changing the Ford branch in London into a proper company.

The Ford Motor Company (England), Ltd., was born. And at Trafford Park the British workman was introduced to what Henry Ford called: "The focusing upon a manufacturing project of the principles of power, accuracy, economy, system continuity, speed and repetition." In short, mass production.

Production at Manchester in 1912 was 3,000 vehicles; in 1913 it was 6,000; and only the outbreak of war prevented 10,000 being reached in 1914. After the

war the Trafford Park plant soon outgrew itself.

And so the pages of the album turn again, to Dagenham-a name that is as synonymous with Ford as Alamein is with Montgomery. Henry's son Edsel cut the first sod of the 500-acre site on May 17, 1929. The experts looked at the marshes and shook their heads, as their forebears had done when they saw the first Model But with Ford the impossible merely takes a little longer. In fact, it took only two years to transform the bleak, Thamesside marsh of Dickens' "Great Expectations" into a thundering giant of a factory that was to become the great expectations of thousands of families who had come to live on the new housing estate near the village of Dagenham.

#### Dagenham's First

The last Trafford Park vehicle rolled off the production line in October, 1931. A few days later the Dagenham factory came to life, and the first vehicle to come off the line was the one shown in our picture—a 24-h.p., Model A, 30-cwt. truck.

In their 20 years at Manchester, Ford produced nearly 422,000 vehicles In 1960 alone, total production of Ford in Britain hit an all-time high of 575,000. Dagenham has certainly grown up.

There are of course other Ford locations in Britain—all of which play their part. The Thames Trader range is Dagenham's baby, but the Doncaster, Southampton and Langley plants look after the lighter Thames models.

For Ford, however, as with all great industrial enterprises, there is little time for dwelling in the past. Main celebration of the Golden Jubilee has been left to the Dagenham Car Club, who, in conjunction with Dagenham Council, are organizing a Cavalvade of Motoring on July 1.

July 1 will be a great day for Ford and its 55,000 employees in Britain. But it will be at Dagenham next Wednesday, March 8, that they will be saying....

Happy Anniversary.

#### 50-year Figures

Details of commercial vehicle production tell their own story of the progress of Ford during the past 50 years.

Trafford Park
1911-1931 ... 211,834
Dagenham
1932 13.651

1960 ... 96,823 Tractor production has grown from 2,778 in 1933 to 71,546 in

#### Expansion Trends in Haulage

# Large Licence Switch **Applications Continue**

THE strong trend for holders of C and contract A and B licences to attempt to switch to A licences continues. Again, Two Counties Transport, Ltd., Grimsby, are seeking A licences for a big group of vehicles previously on C licence for the Ross group. They include 24 lorries, four refrigerated vans and 23 insulated containers. New A licences are being sought for 45 vehicles, now on B licence, by Pointers Transport Services, Ltd., Norwich. Among other large applications is one, generally for a 25 miles radius, by E. Goldsmid (1938), Ltd., of London, E.C.3; a dozen lorries (72 tons) are concerned.

Among the grants are eight vehicles of 241 tons to Bell and Co. (Transport), Ltd., Edinburgh.

#### SCOTTISH (NORTH)

Applications

SN 18/2/1.—Alexander and Kelth, Cuminestown, new A lic. 1 veb. (3t). Agricultural produce and requisites for S.A.L., Ltd., Aberdeen, Counties of Aberdeen, Banff, Moray and Kincardine. Cont. lic.

SN 18/2/2.—J. and E. Transport, Ltd., Dundee. var. add I veh. (4%1).

SN 18/2/3.—John Souter, Ltd., Insch. B var. add 1 veh. (5t), to be acquired.

#### SCOTTISH (SOUTH)

Applecations

SS 18/2/1.—Dobson's Storage (1954), Ltd., Edinburgh, new A lic. 5 art. (16½), includes 2 art. (6½) to be acquired, and 5 art. trl. (13½), All goods, excluding livestock and household removals, 75% within 30 miles; 25% paper and paper-making mats., in Scotland, North and Midlands of England. B lic. for 3 art. (10t) and 3 art. trl. (8t) to be surrendered.

SS 18/2/2.—John Hodge (Hauliers), Etd., Jec-burgh, new A lic., 4 veh. (16/40). Pelts and pelt casks for E. S. Ward and Co., Bermondsey, Poppel-ton Gibbs and Co. (Pelts), Ltd., London, and Strong, Rawle and Strong, London, between Southern Division of the Scottish Traffic Area and Midlands, London and Oxford. Cont. lic. to be surrendered.

SS 18/2/3.—William Cavers, Kelso, new A lic. 2 veh. 9t), Lime. Lothians and the Borders for Border Lime Contracts, Haddington; potatoes to Lincolnshire and South Wales and fertilizers within the Lothians and the Borders for Kinross (Lindean), Ltd.; grain to Banfishire and feeding stuffs and fertilizers to the Borders for W. B. Morrison; sugar beet to Cupar. Cont. lic. to be surrendered.

SS 18/2/4.—Andrew Hogg and Sons, Glasgow, A var. add 1 veh. (12/4).

SS 18/2/5.—Samuel Fisher, Giffnock, A var. add 2 veh. (80). Scrap metals between the Scottish Traffic Area and England, and machinery between the Scottish Traffic Area. Lancashire, Midlands of England and the London area.

SS 18/2/6.—James E. McNaughton, Airdrie, new lic, 1 veh, (3%), Steel tubing for Stewart and loyds, Ltd., within 50 miles.

#### Decisions

SS 26/11/9.—Duncan Stewart (Bonnybridge), Ltd.,

SS 1/10/1.—Scottish Central Carting Co., Ltd., Leith, A var. add 2 art., granted,

SS 26/11/1.-David D. Todd, West Calder, new SS 26/11/2.—W. H. Maleolm, Ltd., Johnstone, ew A lic., sitting cancelled.

SS 26/11/3.—McQuatter Bros., Glasgow, new A c., sitting cancelled.

SS 10/12/4.—Bell and Co. (Transport), Ltd., dinburgh, A var. add 8 veh. (24%t), granted.

#### **NORTHERN**

N 21/2/1.—H. S. George, Darlington, A var. add 1 veh. (5t), to be acquired, delete 1 veh. (2t 19c). Steel ingots and forgings. Mainly to Tees-side, Newcastle, Sunderland, Sheffield, occasionally to Manchester and Liverpool.

Manchester and Liverpool.

N 21/2/2.—A. Reil (Stockton), Ltd., A var. add
2 art. units (4½t ea., trl. 3½t ea.), to be acquired.
Mainly trunk service to North East Coast and
Eastern Counties. Steel wire, castings, food
products, machinery, salt products, paper, chemicals,
agric, produce, road and building mats., paint and
wood

wood.

N 21/2/3.—A. Bell (Stockton), Ltd., A var. add
2 art. (units 41/4 ea., trl. 31/4 ea.), to be acquired.
Mainly trunk service to North East Coast and
Eastern Counties. Foodstuffs, salt and salt
products, steel, machinery, paper, building mats,
fertilizers, chemicals, wire, wood crates and timber.

N 21/2/4.—D. Smith, Bishop Auckland, new B
lic., 1 veh. (44 7c) (cattle truck). Racchorses, G.B.
At present on C lic.

N 21/2/5.—B. Housell, Bowlury (Ferrobill), new

At present on C lie.
N 21/2/5.—R. Howell, Bowburn (Ferryhill), new B. lie. 1 veh. (It 2c) (Workabus). G.g., excluding livestock within 20 miles of Bowburn.
N 21/2/6.—Redpath Bros., Ltd., Wooler, new B lie. 2 veh. (7) (flats), subject to the surrender of B lie. for these veh. in name of T. D. Mossman and Sons. Coal within eight miles, other goods within 40 miles of Bowburn.

within 40 miles of Bowourn.

N 21/27,—Middlesbrough Transport and Engineering Co., Ltd., B var., add 3 veh. N/E (4t each) to be acquired, delete 3 veh. (8t 6c) (T).

N 21/2/8.—J. W. and H. Johnson, Middlesbrough, B var., add 1 veh. (3t 9c) (T). Building mats. within 10 miles of the Town Hall, Middlesbrough.

N 21/2/9,—Transway, Ltd., South Shields, B var., add 2 veh. (4t each) (T), 2 veh. (3t each) (flate) and I art, (unit 11 9c, trl. 11 6c), to be acquired. Coke, furniture and household effects within 15 miles, South Shields.

#### NORTH WESTERN

NW 17/2/1.—N. Fisher, Chadderton, new B lic. House coal sub-contracting 8 to 10 miles. At present on C lic.

NW 17/2/2.—W. O. and E. O. Williams, Harlech, new B lic., 1 veh. (3t) (art.) and 1 trl. (31/6) art. Earth-moving plant and machinery; Harlech, Portmadoc, Trawsfynydd.

NW 17/2/3.—Arthur E. Lunt. Ltd., Liverpool. new B lic. 1 veh. (1t). Occasional carriage of goods belonging to Pickavance Machine Tool Co., Now on C lic.

on C ile.

NW 17/2/4.—W. G. Suckling, Ltd., Liverpool, B var., add 2 veh. (8½) (includes container 1½). Meat within 10 miles, goods for Birds Eye Foods, Ltd., within 50 miles.

NW 17/2/5.—G. R. and J. Pemberton, Preston. B var., add 3 veh. (3½t) vans. Morning newspapers and periodicals for publishers' agents within 25 miles; mails and parcels for G.P.O. during Christmas, parcels for British Railways within three miles.

NW 17/2/6.—J. H. Wills, Gresford, short-term B 1 veh. (91/4). Milk in bulk tanker for the Milk Marketing Board, for a period of four months.

NW 16/12/6,-White Star Carriers, Ltd., Wigan, var., adjourned. NW 2/12/2.—D. T. and N. Keighley (Whalley), dd., Blackburn, A var., granted. NW 25/11/5.—Liverpool Cariage Co., Ltd., A

NW 2/12/6 .- F. Davies (St. Helens), Ltd., A var.,

NW 9/12/2.-Roadcraft, Ltd., Liverpool, new B

#### YORKSHIRE

Decisions

Y 23/11/1.-F. Jackson, Dewsbury, new A lic.,

Y 7/12/1.-A. H. Hall, Delph, new A lic., Y 7/12/6.-R. Naylor, Liversedge, A var.,

Y 7/12/8.—Lincoln Shackleton and Sons, Ltd., puthowram, A var., granted.

CONTRACTIONS: add, additional: agric., agricultural: art., articulated unit: c, cwt.; g.g., general goods: G.B., Great Britain: ind., indivisible; lic., licence; low-ldr, low-loader: mats., materials; N.U., normal user; S.T., special type; t, tons; T., tipper; trl., trailer; variation; wh., wheels.

Y 7/12/11.-F. Fascoine, Halifax, new B lic., granted.
Y 7/12/10.—G. W. Broadfield, Dewsbury, new B

#### EAST MIDLAND

Applications

Applications

EM 23/2/1. — Two Counties Transport, Ltd.,
Grimsby, new A lic. 28 veh. (121t 13c) (24 platform veh., 4 refrigerated vans), 6 trl. (not exceeding 2t 15c e.a.), 23 insulated containers (nc. 1t ea.) in possession add 1 veh. (n.e. 4t 8c) act., 1 trl. (nc. 4t 10c) art., to be acquired. Foodstuffs, frozen foods and fruits, potatoes, refrigerating plant and equipment, shopkeepers' sundries, machinery. chemicals, ships' gear and equipment, printed matter, garage equipment, and other goods as required, mainly for Ross Group, Ltd., and its associated companies, and on return goods for Ross Group and its associated companies and other associated companies, and on return goods for Ross Group and its associated companies and other general goods as required. To North Eastern Counties, North Western Counties, Midlands, Eastern Counties, London and Home Counties, South East Counties, Southern England, S.W. Counties, Yorkshire, Scotland, S. Wales and as required.

Counties, Yorkshire, Scotland, S. Wales and as required.

28 veh. and 6 trl. now on C lic. Ross Group, Ltd., EM 23; 2; 2—Hacketts Haudiers (1960), Ltd., Swadlincote, new A lic. 2 veh. (n.e. 4t 10c ea.) art. and 2 trl. (n.e. 4t 5c ea.) art. to be acquired. Mainly agric, produce and requisites, foodstuffs, machinery, steel, paper, chemicals, salt, paint, pipes, building materials, lino, oils, eastings, Lancashire. Yorkshire, Cheshire, London, Midlands, Scotland N.B. If granted, authority Woodcocks Transport (Midlands), Ltd., to replace 1 veh. (8t) by 1 veh. (n.e. 4t 10c) art. and 1 trl. (n.e. 4t 5c) art. will not be taken up. EM 23/2/3—R. E. Mason Transport, Ltd., Kijsby, A var. Delete 6 veh. (32t 7c). Add 6 veh. (n.e. 7t 10c ea.) to be acquired.

EM: 23/2/4—F. C. Beensett and Sons, Ltd., Kinston Blount, A var. Add 2 veh. (n.e. 3t 10c ea.) to be acquired. Animal foods, bricks, cement, tiles, concrete products and agric. products, 80 miles. EM: 23/2/5—C. Gotzhelm and Sons, Ltd., steel components and occasional g.g.: North, East and West England. Cont. A lic. to be surrendered.

EM: 23/2/6—F. South and West England. Cont. A lic. to be surrendered.

and West Midlands, South and West England, Cont. A lic. to be surrendered.

EM 23/2/6.—P. Smith, Owston Ferry, new B lic., I wh. (19c.) Sunday newspapers from Scunthorpe Station for delivery within 15 miles. Short term lic., granted. Previously on C lic.

EM 23/2/7.—C. W. Harrison (Contractors), Ltd., Thame. New B lic. I veh. (3t 10c). Cesspit contents, privy soil, sewage, sludges and waste liquids within 30 miles of Oxford and in any area for which B lic. is already held.

EM 23/2/8.—Alsirat. Ltd., West Hallam. New B lic. 3 veh. (n.e. 4t ea.) art. and 3 trl. (n.e. 4t 10c ea.) art. to be acquired. Goods for customers to and from storage depot, as required.

and from storage depot, as required.

EM 23/2/9.—T. Bygott and Son, Grimsby, B var.
Add 1 veh, (n.e. 4) to be acquired. Timber for
Joseph Green as required, solid fuels 100 miles.

Joseph Green as required, soind racia for mines, goods 60 miles, EM 23/2/10,—Tomlinson Bros. (Hucknall), Ltd. B var., delete I veh. (2t 12c). Add I veh. (ne. 4t 10c) to be acquired. EM 23/2/11 W. E. Audrew, Lincoln, B var. Add I veh. (ne. 3t 3c) to be acquired and one container (It 5c). Goods for Kellog and Co. (Great Paristo). It is a superior of the container (It 5c).

tainer (It Sc). Goods for Kellog and Co. (Great Britain), Ltd.
EM 23/2/12 Bells Warehousing and Haulinge, Ltd., Lincoln, B var. Var. cond., goods for G. Harrison and Son (Lincoln), Ltd., and Oliver Bros. (Seeds), Ltd., and goods for storage into and distribution from licensee's warehouses at Newark and Lincoln within radius of 65 miles, Lincoln.
EM 23/2/13 H. W. Dines and Co., Merton, Bicester. B var. Add I veh. (8t 3c). Building mats, within 75 miles Oxford. Cont. A lic. to be surrendered.

rrendered. EM 23/2/14 J. G. Eccles and Co., Ltd., Santon

EM 23/2/14 J. G. Eccles and Co., Ltd., Santon, Scunthorpe, B var. Add 1 veh. (ne. 8t) tanker, to be acquired. Tar and bitumen for J. G. Eccles and Co., Ltd., subsidiary and associated companies and for Esso Petroleum Co., Ltd., any distance. FM 23/2/15 A. Lilbey, Wellingborough, B var. Add 1 veh. (3t 3c). Goods for Whitworth Bros., Ltd., Victoria Mills., Wellingborough and Weetabix, Ltd., Burton Latimer, as required. Cont. A to be surrendered:

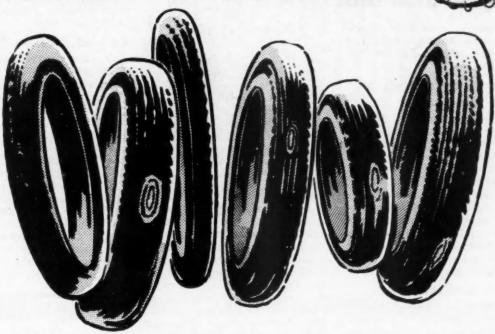
surrendered.

EM 23/2/16 Parsons Brothers and Snape, Ltd.,
Lincoln, short-term B lie. 4 veh. (17t 18c), coal,
coke and patent fuels for Smith, Parkinson and
Cole, Ltd., as required. Three months from grant.

(Continued on page 163)

# REMEMBER NATIONALISATION





# MAINTAIN INDEPENDENCE!

Offer your scrap tyres, waste rubber and plastics to members of the Waste Rubber & Plastics Merchants' Association of Great Britain — every one an independent competitive firm

#### THIS ADVERTISEMENT IS SPONSORED FOR THE ASSOCIATION BY

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WASTE RUBBER & PLASTICS MERCHANTS' ASSOCIATION OF GREAT BRITAIN

MOORGATE HALL, MOORGATE, LONDON, E.C.2 MON 7394

# Shackle pins driven to scrap at only 43,000 miles

The operator trusted to regular manual lubrication, but he was robbing his bearing components of half their useful life.

#### Expensive replacements after only a year of service

Nowadays a commercial vehicle or bus operator reckons on a running life of 600,000 miles upwards for a new vehicle. It can cost him up to £10,000 and he obviously expects to get the best commercial use out of it. So he does not reckon on expensive replacements at only 43,000 milesthat is, most likely, within a year of purchase. It just doesn't pay him to lay up his vehicle for a week or more ... nor does he like the heavy bill at the end of it all.

#### Regular lubrication but . . .

Now, this operator places his faith in manual lubrication and believes that he is doing the best by his vehicles. But is this really true? Ask him and he'll protest 'I lay up all my vehicles several hours a week for manual lubrication. What more can I do?"

#### Is manual lubrication enough?

Quite simply, he must realise that manual lubrication and even poweroperated lubrication are irregular, inefficient methods of protecting the bearings of his vehicles. The vital film of lubricant is only spasmodically maintained on bearing surfaces. The result is that they are starved of lubricant for a large part of their lives, causing drastic wear that will turn them into scrap well before their time. Just take another look at the illustration!

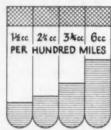
#### Does automatic chassis lubrication pay?

Now nobody likes laying up their vehicles once a week for servicing. It's a waste of valuable running time and, of course, can make a considerable cut in the number of payloads per week. So let's consider another method of lubrication -Tecalemit's Automatic Chassis Lubrication. The Syndromic System, operated by direct drive from the propeller shaft, provides a constant feed of lubricant in exactly metered quantities to all bearings at all times.



(The A.C.L. System does approximately the same for the smaller commercial vehicle or bus). It seems to us that the operator cannot go wrong - automatic chassis lubrication takes care of the lubrication of his vehicle for him. And, halving replacement bills and permitting vehicles longer time on the run, makes up for its cost and pays its way in a relatively short time. In fact, operators report that their outlay has been very quickly recovered - often within the first year of service.

# How much oil does a bearing



In these tubes are the relative quantities of oil the various bearings on a commercial vehicle or bus require every 100 miles. Under the Syndromic System each bearing receives a shot of lubricant every mile. The great advantage of this system is that delivery of oil is in direct proportion to the size of the bearing and the load it has to carry, ensuring maximum lubrication efficiency with minimum oil consumption.

#### Bearing components in flood conditions

Many vehicles engaged on rescue work in the Essex floods some years ago were put out of commission due to corrosion and seizure of shackle and steering bearings. But it was found that on vehicles fitted with

Syndromic equipment including a large number of Essex County Council Ambulances, bearings were in perfect condition after several days continual operation in the worst flood areas.

#### Push-button chassis lubrication

The famous Gordon England Austin 7 was one of the first vehicles to carry a chassis lubrication system. A suction-operated, single plunger pump was controlled by a push button on the dash and, whenever the driver wished, oil could be automatically delivered to the chassis bearings through metering points. By 1926 automatic lubrication systems were fitted to many private cars. Some operated when the driver applied the brake, others when operating the clutch in the course of gear change. Tecalemit systems were adopted by A.C., Alvis, Daimler, Lagonda, Riley, Sunbeam and many other leading car manufacturers.

#### "Syndromic" & A.C.L. Fitting **Stations**

BASHDON ESSEX BELFAST

BIRMINGHAM

BLACKBURN, LANGS

BRIGHOUSE, YORKS

RRISTOL

BURTON-ON-TRENT

DUBLIN

DURNAM

EDINBURGH

GLASGOW

LIVERPOOL

LONDON

MANGHESTER

PLYMOUTH PORTSMOUTH

SHEFFIELD

SOUTHAMPTON

STOKE-ON-TRENT

Bonallack & So Nevendon Works. Sons Ltd.,

A. S. Baird Ltd., Annadale Embankment, Ormeau Road. Ryland Garage Ltd., Ryland Street, Off Broad Street. Primrose Third Axle Co. Ltd., Production Div., Lever Mill, Ewood.

The Reliance Garage Co. (Brighouse) Ltd., Wakefield Road.

Coventry & Jeffs Ltd., Stafford Street, Bedminster, Kennings Ltd., Derby Turn. Blackrock Engineering Works Ltd., Sweetman's Avenue, Blackrock.

Darham Industries (London) Ltd., Dragonville Industrial Estate.

The S.M.T. Sales & Service Co. Ltd., Roseburn Street, The S.M.T. Sales & Service Co. Ltd., 177, Finnieston Street. H. Woodward & Sons Ltd.,

Altear Works, Formby. Normand Ltd., Cumberland Avenue, Park Royal, N.W.10. Nightingale Engineering Co. Ltd., Western Lane, Nightingale Lane, S.W.12,

Kennings Ltd., 232, Cheetham Hill Road. Drake Motors Ltd., Laira

Bridge Road. J. H. Sparshatt & Son Ltd., London Road, Hilsea. Phillips Motor Services (Sheffield) Ltd., 443 Handsworth

J. H. Sparshatt & Son (Southampton) Ltd., The (Southampton) Ltd., Causeway, Redbridge.

Newcastle (Staffs.) Motors Ltd., Newcastle Road, Trent

# TECALEMIT LUBRICATION ON THE RUN



Tecalemit Automatic Chassis Lubrication takes complete care of the lubrication of your vehicles while they are out on the road. Regular manual lubrication is cut out, allowing longer time in service and consequently more payloads. And, of course, improved lubrication means minimum wear on bearing components, lighter replacement bills, reduced road shocks, easier steering, less driver fatigue and greater reliability.

The **TECALEMIT SYNDROMIC SYSTEM** — lubricates up to 80 points on the larger commercial vehicle. Pipe lines are in vibration-proof Tecalemit Nylon Tubing, which can be coupled directly to moving parts. Thoroughly tested and proved in actual service all over the world.

The **TECALEMIT A.C.L.** Single Line Automatic Chassis Lubrication System — for light commercial vehicles and buses. Incorporates a small piston-type impulse pump and a ring main. Individual metering units serve up to 30 bearings. All pipe lines are in Tecalemit Nylon Tubing.

Full details from: TECALEMIT LTD. (SALES C.M.), Victoria Road, Feltham, Middlesex.



**Automatic Chassis Lubrication** 

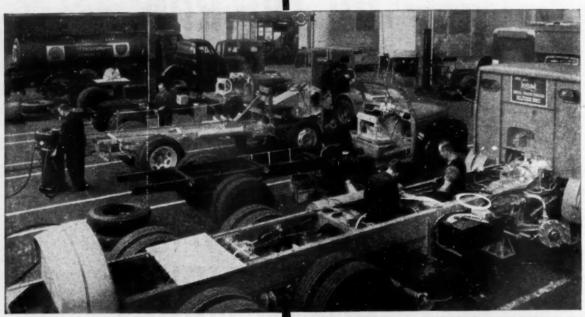
TECALEMIT LIMITED PLYMOUTH DEVON

7.718

# **TECALEMIT "SYNDROMIC"**

The most developed mileage-controlled chassis **lubrication** system

Installation by Normand



This lubrication system feeds every chassis point exactly the right amount of lubricant - while the vehicle is on the road.

This development makes Tecalemit "Syndromic" the most economical and efficient chassis lubrication system; it will prolong the working life of your vehicles, cut down 'time off the road' drastically and save lubrication costs.

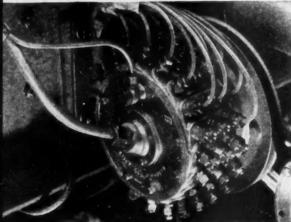
Normand Limited are agents for Tecalemit "Syndromic" installation in the Greater London area. With over 31 acres of workshop space and the most up-to-date plant, we are well equipped to install a system that will pay big dividends.

Manufacturers of alloy, composite and plastic bodies. Suppliers of commercial vehicle chassis. Mechanical, electrical and coachwork repairs of all types. Heavy and medium exchange engine specialists.

Vehicle contract maintenance. Contract painting. **Fitting agents for Tecalemit** 

mileage-controlled chassis lubrication.

ALL UNDER THE SAME ROOF AT



Top photograph: A section of our Tecalemit "Syndromic" fitting bay. Lower photograph: A 60-unit pump with nylon feed tubes.

Normand

EM 23/2/17.—Painter and Brennan, Ltd., Oaker-thorpe, Short-term B lie, 1 veh, (4t 6e). Deep-mined coal from ground stocks at Renishaw Park Colliery to Coventry on behalf of Michael and Partners, Ltd., Chesterfield, to the order of Frank Knight, Ltd., Three months from grant.

EM 23/2/18.—9. J. Waugh, Tibshelf, Short-term B lie, 1 veh, (3t 19c.). Deep-mined coal from stocks at Renishaw Park Colliery to Coventry on behalf of Michael and Partners, Ltd., Chesterfield, to order of Frank Knight, Ltd. Three months from grant.

#### WEST MIDLAND

Applications

WM 23/2/1.—W. R. Hill and Sons, Ltd.. Pontesbury, A var. Add 2 veh. (7½1) T. Mainly solid fuels, clay, agricultural produce and building materials, within 75 miles radius; road-making materials, within 170 miles. Now on B lic. WM 23/2/2.—L. Watt, Gobowen, A var. Add 2 veh. (15½0). Mainly steel and metal components, Midlands. South Wales and Lancashire.

WM 23/2/3.—R. Johnson, Rowley Regis, A var. Add 1 veh. (2½1), to be acquired. Manufactured goods, steel and steel sheets 30 miles.

WM 23/2/4.—J. L. Ewers, Birmingham, new B lic. 1 veh. (4½1) T. Building contractors' goods, 35 miles.

Add 1 veh. (234). to be acquired. Manufactured goods, steel and steel sheers 30 miles.

WM 23/21/4.—J. L. Ewers, Birmingham, new Bilc. 1 veh. (434) T. Building contractors' goods, 35 miles.

WM 23/21/5.—Dean Transport, Brierley Hill, new Bilc. 1 veh. (61/40) T. Foundry materials, coal, coke, 125 miles.

WM 23/21/6.—Fison's Ltd., Shifnal, New Bilc. 1 art. (30), 1 trl. (21/40). Fertilizers, basic slag, line and salt. (30) miles.

WM 23/21/6.—S. T. W. Priest, Stourbridge. New B. Ilc. 5 veh. (161/40) 3 flats 2 T. Building and refractory materials for E. J. and J. Pearson, Ltd., and their subsidiary and associated companies, as required. Cont. A lic. to be surrendered.

WM 23/21/8.—E. F. D. Jones, Walsall, New Bilc. 1 veh. (14) to be acquired. Towing of caravans within 250 miles.

WM 23/21/8.—E. F. D. Jones, Walsall, New Bilc. 1 veh. (14) to be acquired. Towing of caravans within 250 miles.

WM 23/21/8.—E. The Jones, Walsall, New Bilc. 1 veh. (14) to be acquired. Towing of caravans within 250 miles.

WM 23/21/8.—E. H. D. Jones, Walsall, New Bilc. 1 veh. (14) to be acquired. Gowing of caravans within 250 miles.

WM 23/21/8.—A. G. Lowe and Sons, Birmingham, B var. Add 1 veh. (34) T. Vary cond. coil. and del. of coal for Wilson. Carter and Pearson, within 35 miles of Birmingham, WM 23/2/10.—A. G. Lowe and Sons, Birmingham, B var. Add 1 veh. (34) Goods for Buipitt and Sons. Ltd., and B.K.B. Electric Motors, Ltd. Coyentry, B var. Base: Coventry Clvic Airport, Bagistron, Vary cond. on 2 veh.; motor cars on wheels as required, G.B., Vary cond. on 2 veh.; motor cars on wheels. except Jaguar cars, for export, as required, G.B., Vary cond. on 2 veh.; motor cars on wheels except Jaguar cars, for export, as required, G.B., Vary cond. on 2 veh.; motor cars on wheels except Jaguar cars, for export, as required, G.B., Vary cond. on 2 veh.; motor cars on wheels except Jaguar cars, for export, as required, G.B., Vary cond. on 2 veh.; motor cars on wheels except Jaguar cars, for export, as required, G.B., Vary cond. on 2 veh.; motor

existing cond. to incl. haulage and spreading of agric, lime, fertilizers and limeatone, 100 miles. WM 23/2/13.—E. T. Costin, Willenhall, B var. Add I veb. (35%) to be acquired. Goods for Rubery Owen, within 30 miles, dels, to production depts. at Wrexham and Whitchurch.

at Wrexham and Whitchurch.

Decisions

WM 29/12/4.—Sparion Steel and Alloys, Ltd.,

Aston. B var., add 2 vch. (60) 1 van (3½1), granted.

WM 8/12/3.—S. Howells, Birmingham, new B
lic., 1 vch, granted, soods for Harvey Co., Ltd.,

furnishers, within 25 miles.

WM 17/11/2.—L. James, Tipton, new B lic.,

grant for 2 vch., goods for Steel Parts, Ltd., as

required.

WM 29/12/1.—A. Smith, Birmingham 9, new A
lic., adjourned.

lie., adjourned.
WM 22/12/5.—L. J. Barratt, Oswestry, new B

lic., granted.

WM 5/1/3.—J. W. F. and C. Ravenscroft, Ellesmere, new B lic., grant for 1 veh., round timber from selling sites, within 150 miles.

WM 15/12/4.—Express Motor Carriers (Oswestry),

WM 15/12/4.—Express Motor Current (Oswestry), Let, A var., granted, WM 29/12/2.—R. A. Swain, Church Stretton, A var., granted bu: "Mainly" deletted from N.U. WM 15/12/6.—John Brombey and Sons, Church Stretton, B var., granted. WM 8/12/2.—British Ruilways, Birmingham, A

var., granted. WM 22/12/2.—British Railways, Wolverhampton,

WM 26/1/4-B. F. G. Rainbow, Ltd., Rugby, new B lic., adjourned.

#### SOUTH WALES

SINCE THE PROPERTY

Decisions SW 11/1/2.—Western Roadways (Cardiff), Ltd.,

SW 25/1/3—Western accounts the terminal Line.

SW 25/1/4.—Boyle and Son, Penarth. A var., granted, to be used as maintenance veh, when operators lie, web, are out of commission.

SW 25/1/5—W. D. Blakeman, Cardiff, new B

lic., withdrawn. SW 16/11/4.—R. Williams, Newport, A var.,

adjourned. SW 2/11/9.—T. Griffiths, Cwmcarn, II var., granted, goods for Monmouthshire County Council and concessionary coal for N.C.B., within 30 miles.

SW 14/12/3.-E. Lewis and Son, Pomardulais. var., granted SW 11/1/3.—Harvey and Lee, Llanelly, A var.,

SW 11/1/13.—Harvey and Lee, Llanclly, A var., reclused.

SW 25/1/3.—E. Thomas, Llanclly, A var., granted as amended, delete I veh (41) add I veh. (51). Normal operators to be goods for Pullman (Spring Filled) Co., Ltd., Ammantord, to London. North West and North East of England, Midlands and Glasgow. Milk produce, coal, agric, foodstuffs in South Wales, Bristoi and London areas, SW 11/1/12.—Price Bros. and Evans, Portardawe, cw B. Jic., withdraw.

SW 11/1/13.—E. J. Milles and Sons, Ltd., Port Talbot, B var., granted on agreed terms, goods for the Steel Co. of Wales, scrap, road and building mats., plant, excavated matter, coal and work for the Glamorgan County Council, within 35 miles.

#### **EASTERN**

Applications

Applications

E 20/2/1.—Poloters Transport Services, Ltd., Norwich, new A lic., 45 veh. (3 artic.) (19/46) eveh. (17) to be acquired; 5 trl. (3 artic.) (20/46). Excavated building and road mats., plant, agricultural goods, foods and all work for Pointer Group. If granted B lics, will be surrendered.

E 20/2/2.—E. H. Lobb, Maulden, A var. add 1 veh. (5/40), to be acquired.

E 20/2/3.—Riddiffords (Brampton), Ltd., A var., add 7 veh. (28t). If granted A Cont. lic, will be surrendered.

E 20/2/4.—J. W. Leggett, Ltd., Beccles, A var., add 1 veh. (3/40) artic. with detachable livestock container (2/40) artic. on the livestock container (2/40) in substitution for 1 veh. (30).

E 20/2/4.—J. W. Leggett, Ltd., Boods for Whittlesford Manufacturing Co., Ltd., 60 miles. E 20/2/6.—Simpsons (Foodyke), Ltd., Moulton Marsh, B var., add 2 veh. (7). Haulage within 30 miles; agricultural and market garden produce collected within six miles to London, Midland and Northern markets; all radii of Foodyke P.O.; goods for Lawes Chemical Co., Ltd., and Sam Fletcher, Junior. Cont. A lics, to be surrendered.

Decisions

E 28/11/8 .- A. J. Martin, Peldon, new B fic.,

retused.

E 28/11/2.—A. Bell (Stockton), Ltd., Costessey, new A &c., 1 veh, granted.

E 28/11/9.—Frank Spandler, Great Varmouth, B var., granted on amended terms.

E 31/10/5.—D. M. Brown, Southend-on-Sea, new B lic., refused.

#### WESTERN

Applications

Applications

W 21/2/1.—Armsdon Transport, Verwood, new A lic., 3 art. veh. (14t 4c.) (Tractors 2t 8c, 2t 12c, 2t 6c, trls. 2t 7c, 2t. Semi-low ldrs. 2t 11c), Mainly reconditioned goods, prefabricated buildings, caravans and light plant and machinery. G.B. Note.—2 art. veh. (9t 5c) Tractors (2t 8c, 2t 6c) trls. (2t 11c, 2t) on cont. A lic. "Goods of Recontainers, Ltd.," and 1 art. veh. (4t 19c) Tractor 2t 12c, trl. 2t 7c), specified on cont. A lic. Goods of J. E. Lesser and Sons, Ltd. W 21/2/2.—Pioneer Hanlage, L4d., Beer. A var., veh. (4t 19c), in lieu of 1 veh. (2t 18c). W 21/2/3.—J. B. Wheaton, Chard Junction, A var. add 1 veh. (3t) to be acquired. G.g. mainly foodstuffs, animal feeding stuffs, timber, steel, prestressed concrete, casks and cases and agric. produce and requisites normally within 150 miles.

stressed concrete, casks and cases and agric, produce and requisites normally within 150 miles, W 21/2/4.—S.C.C. Transport (Devizes), Ltd., A var. 8 art. veh. (32) 6 art. tris. (181 5c) to be acquired in lieu of 8 art. veh. (248 8c) and 6 art. vis. (174 4c).
W 21/2/5.—A.R.C. Transport Co., Ltd., A var. add 1 veh. (5t 15c). Goods of Poultry Farmers of Devon and Cornwall, Ltd., and other agric.

produce and machinery normally within 200 miles. At present on cont. A lic. Goods of Poultry Farmers of Devon and Cornwall, Ltd.

W 21/2/6.—P. G. Furnell, Upton (Dorset), A var., add 2 veh. (80, to be acquired. G.g. mainly building mats. normally within 200 miles.

W 21/2/7.—R. J. Hacker, Bristol, new B lic., 1 veh. (4t 3c) T. Solid fuel and quarry mat, within 150 miles.

W 21/2/8.—W. C. Tuck, Caincross, new B lic. 1 veh. (3t 3c) T. G.g. within 40 miles. As present on com. A lic. Goods of Hoffman (Globecster). Ltd.

Ltd. W 21/2/9.—D. J. Gwilliam, Edington, r lic., I veh. (3t 4c). Agric, goods within 100 At present on C lic. W 21/2/10.—F. Cook and Son (Winterb. Ltd., Frampton Cotterell, new B lic., I ve 4c). Livestock within 200 miles, other goods 4c). Liv 20 miles

20 miles.

W 21/2/11.—Stan Butt Transport, Bristol, B var., add 1 veh. (31) T. Goods for Poole Bros. Galbraith and Co., Ltd., within 30 miles; road and building mats, from or to non-rail connected sites or premises within 30 miles; solid fuel from rail-connected sidings or premises within 30 miles; solid fuel from rail-connected sidings or premises within 30 miles. At present on cont. A lie. Goods of Poole Bros. Galbraith and Co., Ltd.

W 21/2/12.—J. T. Carpenter and Sons, Orudwell, B var., add 1 veh. (61 flo) T., to be acquired. Solid fuel within 120 miles; agric, products and requisites within 60 miles.

W 21/2/13.—F. Tucker, Exciser B var. add.

requisites within 60 miles.

W 21/213.—F. Tucker, Exeter, B var., add 1 veh. (4t) T., to be acquired. Goods for Western Counties Brick Co., Ltd., and associated companies any distance; building plant and mats, and foundry mats., within 75 miles; goods for Co-ordinated Traffic Services within 40 miles, collection and delivery of goods from licensees within 40 miles, other goods within 25 miles.

W 21/21/41 F. Forther February B. var. 2 veh.

W 21/2/14.—F. Backer, Exeter, B var., 2 veh. (7t 6c) T., in lieu of 2 veh. (5t 5c) T.

W 21/2/15.—R. L. Starr, Frome, B var., add 1 veh. (3t 15c). Quarried mats, and tarmacadam within 150 miles; concrete building blocks within 60 miles, goods of Crees Bros., as required, At present on C lie.

W 21/21/6. C. H. Taylor, Holsworthy, B var., vary conds., g.g. within 125 miles, goods collected within 15 miles for delivery to London, agric. goods for Thos. Oke, Ltd., within 200 miles with 1 veh. (31 9c).

Decisions

W 20/12/1,—Lockyer's Transport, Ltd., Exeter new A lic., adjourned.
W 3/1/3.—S. P. Gunn and Sons (Coal), Ltd., Okchampton, B var., withdrawn.

Okchampton, B var., withdrawn, W 3 1/12.—A. J. Gregory and Son, North Tawton. A var., add 1 vch. (60) container (21), granted, W 29/12/4.—W. S. Field, Wick, A var., granted, W 17/1/8.—G. R. Guest, Ltd., Chedworth, B var., add 1 art. (5t 17c) low-ldr., withdrawn.

#### METROPOLITAN

Applications

M 23/2/1.—E. Goldsmid (1938), Lad., London, E.C.3. A var. Add 12 vch, (42t) flats to be acquired. G.g. within 25 miles of Tower Hill, onal longer journeys.

M 23/2/2.—L. T. Redburn, Ltd., Enfield, A vat. Add 6 veh. (25t 10c) and 6 trl. (191/21). G.g. G.B. M 23/2/3.—T. H. Beaton, North Kensington, W.10, New B lic. 1 veh. (4t 17c) tipper, I veh. (5t 4c) tipper, Hand-loaded coal and coke in bulk, within 40 miles,

Decisions

M 30/11/6.-H. C. Beadle, Hertford, new B lic.,

M 9/11/7,—G. A. Simbeld and Son (London) Ltd., S.E.2. A var., add I art. (2%) granted, 2 vch. 1 trl., granted

Eight-wheel braking is a feature of this A.E.C. Mammoth Major, recently de-livered by Harry Dando, Chipping Sodbury, to G. Willmott, Wells, Somerset. This concern has over 20 A.E.C.s in its fleet, and has been oper-ators of this marque for nearly 40 years.



#### Planning for Profit

# Costing Solo and Trailer Working



Alfred Dexter, Ltd., 33, Southampton Street, London, W.C.2, have recently taken delivery of this Atkinson eight-wheeler, seen here with a neat load of boxed oranges. The chassis has a Gardner 6LX oil engine, six-speed synchromesh gearbox and air-hydraulic brakes.

FLUCTUATION in loadings is always a major problem for transport operators. Except possibly in highly specialized ancillary working—when not only the type of traffic is standardized, but also the quantity in many instances—for most operators the best that can be achieved in the selection of a vehicle is an economic compromise. To some extent large fleet users have the advantage in this respect that a range of sizes of vehicle can be operated to meet most occasions. Where small fleets are concerned, however, the advantages to be gained in standardization and resulting flexibility by the adoption of one type of vehicle may more than outweigh the saving to be obtained by the supply of a vehicle to fit each and every load.

To meet the demand of fluctuations in available traffic established operators will obviously have decided from past experience what is the average size of vehicle suitable for their kind of work. From this basis it would then be possible to decide to what extent it would be economic to make some provision to carry the additional tonnages as and when available, without having to resort to hiring other vehicles. The two main factors to be considered in this respect would be the extent to which the additional tonnage exceeded the average load and the frequency with which this occurred.

Three alternatives would then be available to meet such a situation. If all vehicles in the fleet had a carrying capacity slightly above the average loading, the additional fleet carrying capacity would be substantial without undue addition to the operating cost of each vehicle. A second alternative would be to provide a spare vehicle (or vehicles according to the size of the fleet), whilst limiting the size of vehicle appropriate to the average load. Some difficulty could arise here, however, regarding the availability of spare drivers to man these vehicles. In addition, in the majority of cases, it would not be practicable repeatedly to de-licence such spare vehicles, so that a substantial proportion of standing cost would have to be borne whether the vehicle was used or not.

A NOTHER method employed to meet seasonal fluctuations is the use of drawbar trailers. The advantage offered by this type of operation is a substantial increase in carrying capacity per vehicle with only a relatively modest increase to the total operating cost of both vehicle and trailer. When not in use the standing costs which still have to be met are only a fraction of those which would correspondingly apply where a spare vehicle was kept for the same purpose.

The provision of the necessary statutory attendant should not present the same difficulty as would apply to the engage-

Big Tonnages Plus Big Mileages Demand Robust Vehicles: Alternative Costs for Moving Loads of 9 Tons to 24 Tons

ment of a driver for a spare vehicle. It must be admitted, however, that there are some types of operation where trailer working would not be suitable, due to limited access or for other reasons.

Before giving an example of the relative operating costs obtained from the use of a combination of heavy goods vehicles of various carrying capacities with or without an 8-ton drawbar trailer, it will be useful to state briefly the legal position relative to maximum load and dimensions when engaged in this type of operation. The maximum gross laden weight for the several vehicles or outfits detailed here are as follows:—Four-wheeler 14 tons; six-wheeler 20 tons; eight-wheeler 24 tons and trailer 14 tons. A vehicle and trailer together, when fitted with power-assisted brakes, must not exceed 32 tons.

Rigid goods vehicles, whether four-six- or eight-wheelers must not exceed 30 ft. in length whilst the trailer is limited to 22 ft. As all the vehicles detailed here have an unladen weight exceeding 4 tons they could be up to 8 ft. in width.

The first of the solo vehicles to be dealt with will be the 9-ton four-wheeler in the quality-produced class. With an unladen weight of around 4 tons 10 cwt., the annual licence duty—when operating solo—would be £60, the equivalent of £1 4s. Od. a week, based on a 50-week year. This allows for two weeks per annum when the vehicle may be off the road for driver's holiday or major overhaul, and the remaining standing costs are similarly calculated.

ASSUMING the vehicle is operated in Grade I areas as determined by the Road Haulage Wages Regulations R.H.(70), driver's wages for a basic week of 44 hours will amount to £10 2s. 5d. This includes additions for National Health and voluntary employers' liability insurance contributions, together with an allowance for two weeks' holiday with pay. It is appreciated that in specific instances the actual amount of overtime work could be included in this item of wages. But when dealing with average figures, no corresponding average overtime relative to mileage run can be formulated, for which reason the amount relative to a standard basic week is given.

Rent and rates in respect of garaging the vehicle are assessed at 12s. 3d., whilst insurance is reckoned to add £1 9s. 3d. a week. This is based on an annual premium of £73 4s. 0d., inclusive of the increases in motor vehicle insurance recently annual premium.

It will be assumed that the initial outlay on this particular type of vehicle will be £2.890. Allowing for a nominal interest rate of 3 per cent. on this outlay, the resulting interest charge would be the equivalent of £1 14s. 8d. The total for these five items of standing cost is £15 2s. 7d. It will be assumed throughout that all vehicles average 800 miles per week, so that the standing cost per mile in this instance would be 4.54d.

(Continued on page 165)



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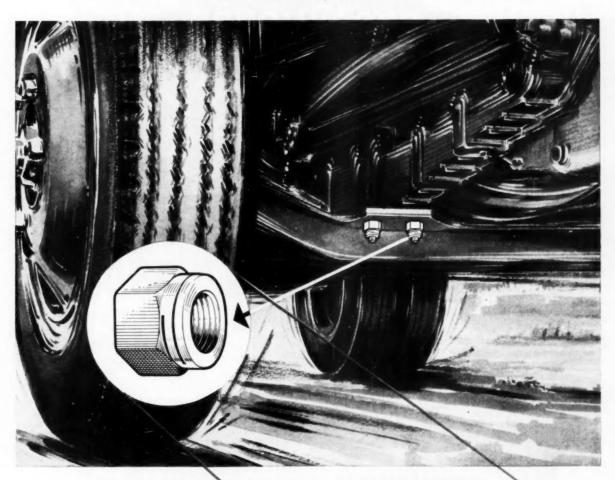
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Similarly it will be assumed that fuel is purchased in bulk at 3s. 10\fmathbb{4}d. per gal. and, with this four-wheeler averaging 12 m.p.g., the fuel cost per mile would amount to 3.90d. Lubricants are reckoned to cost 0.26d. and tyres 1.82d. This is on the assumption that a set costs around £300, with an anticipated mileage life of 40,000.

Maintenance is assessed at 2.46d. per mile, inclusive of servicing and washing, whilst depreciation adds 2.11d. per mile. To obtain this latter figure the cost of the original set of tyres is deducted from the price of the vehicle, together with an allowance for the ultimate residual value, leaving a balance to be written off of £2,637. A vehicle life of 300,000 miles is assumed. The total running cost per mile is therefore 10.55d., giving a total operating cost of 15.09d. per mile.

WHEN maintaining an average of 800 miles a week the total running cost each week will be £35 3s. 4d., and the total operating cost £50 5s. 11d. a week.

The six-wheeler will carry a load of 13 tons and costs £3,840. Its unladen weight of 6 tons 15 cwt. incurs an annual licence duty of £105, the equivalent of £2 2s. 0d. a week. Wages will now be payable in the next higher category and amount to £10 9s. 0d. a week, inclusive of similar additions and allowances as made in respect of the four-wheeler.

Rent and rates will be reckoned slightly higher at 12s. 10d. a week, but because of both the increased initial outlay and additional carrying capacity the weekly cost of insurance will be increased to £2 1s. 5d. on the basis of an annual premium of £103 16s. 0d. Weekly interest charges will also be higher and amount to £2 6s. 1d. Total standing costs each week are thus £17 11s. 6d., the equivalent of 5.27d. per mile.

With a slightly increased rate of consumption, namely 10 m.p.g., fuel cost per mile amounts to 4.68d. Lubricants are reckoned to cost 0.27d. and tyres 2.12d. per mile. This increase is due to the higher cost per set for a six-wheeler (£350), although the anticipated mileage life remains the same at 40.000. Maintenance is assessed at 2.80d. and depreciation at 2.44d. per mile, using the same procedure as before.

Total running costs for this six-wheeler are therefore 12.31d. and the total operating costs 17.58d. per mile. The corresponding running costs each week are £41 0s. 8d. and the total operating cost per week £58 12s. 1d., still assuming an average

weekly mileage of 800.

The eight-wheeler is reckoned to cost £4.075 and can carry a load of 16 tons. With an unladen weight of 7 tons 10 cwt., the annual licence duty would be £120, giving an equivalent weekly cost of £2 8s. Wages will be in the next higher category and amount to £10 16s. 10d. a week, whilst rent and rates add 13s. 4d. a week.

Based on the same scale of rates as previously employed, the

corresponding insurance premium for this eight-wheeler will be £124 per annum, the equivalent of £2 9s, 7d, a week. Because of the increased initial outlay, interest charges will also be higher at £2 8s, 10d, a week. The standing cost is therefore £18 16s, 7d, a week or 5.65d, per mile.

With a rate of fuel consumption of 9 m.p.g., fuel cost per mile will amount to 5.19d. whilst lubricants are assessed at 0.28d. per mile. A set of tyres for this multi-wheeler are reckoned to cost £425. giving a tyre cost per mile of 2.54d. still assuming a mileage life of 40,000. Maintenance is assessed at 3.01d. and depreciation at 2.56d. per mile. This gives a running cost of 13.58d. per mile or £45 5s. 4d. a week. Correspondingly the total operating cost is 19.23d. per mile and £64 1s. 11d. a week.

To avoid undue complication it will be assumed that the cost of operating the trailer will be the same whether the four-, six- or eight-wheeler is coupled to it. As all these vehicles have an unladen weight of over 4 tons, the additional annual licence duty payable in respect of the

trailer will be £20 or the equivalent of 8s, a week. Incidentally it is assumed in all cases that the trailer would be licensed for use throughout the year rather than intermittently, since the incentive to do this would be substantially less than would be the case when de-licensing a spare vehicle.

Making similar allowances as before, the total cost of the attendant's wages is reckoned at £9 9s. Id. But some addition will also have to be made to the driver's wages due to the fact that the statutory rates will fall in a higher category whenever his vehicle is towing a trailer. The actual difference will vary according to the type of solo vehicle employed, and in these particular examples would average 14s. 4d. a week, giving a total of £10 3s. 5d. attributable to the cost of wages when a drawbar trailer is in use. No attempt has been made to adjust this addition relative to spasmodic working, so that vehicle and trailer will be both licensed and manned for use throughout the year.

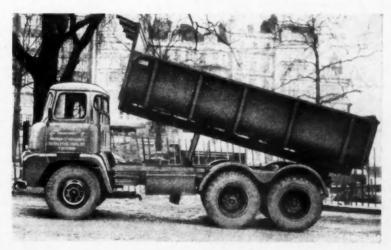
GARAGING the trailer is reckoned to add 9s, 9d, a week and insurance 5s., based on an annual premium of £12 12s. There can be wide variations in the cost of drawbar trailers relative to individual specification. This platformed version, capable of carrying a load of 8 tons, is estimated to cost £920 with a resulting interest charge of 11s. 1d. per week. The total for these five items of standing costs is therefore £11 17s. 3d. with a corresponding cost per mile of 3.56d., at 800 miles a week.

In order to obtain the additional fuel cost when operating with a trailer, it is necessary to average the difference in the rate of consumption as compared with solo operation. It will be assumed in all three cases that there is a difference of 2.50 m.p.g. or 1.81d. per mile. Lubricants are reckoned at 0.03d. per mile and tyres 0.99d. per mile. Maintenance is reckoned to cost 0.50d. per mile, as is depreciation. This gives a total running cost of 3.83d, per mile and £12 15s. 4d. a week. Correspondingly the total operating cost is 7.39d. per mile and £24 12s. 7d. a week.

When running solo the respective operating costs per mile are: 9 tonner, 15.09d.; 13-tonner, 17.58d.; 16-tonner, 19.23d. Coupled to the trailer the corresponding figures are 22.48d.; 24.97d.; 26.62d.; with respective loading capacities of 17 tons, 21 tons and 24 tons. As is to be expected, the lowest cost per ton-mile—1.11d.—is obtained when operating the eight-wheeler coupled to the trailer, compared with 1.20d, returned by the cight-wheeler operating solo.

Other costs per ton-mile are as follows:— six-wheeler (operating solo) 1.35d, and with trailer 1.19d. The corresponding figures for the 9-ton four-wheeler are:— solo 1.68d, or 1.32d, with the trailer. The extent to which underloading would increase actual costs could only be determined relative to individual circumstances.

S.B.



Seen at work on the Hyde Park Corner development site, this Dodge-York six-wheeler is operated by Henry Streeter (Transport), Ltd., Croydon. It was supplied by Mayday Motors, Ltd., Croydon, and has a Pilor Vo-cu.-yd. U-shaped light-alloy body and twin underbody rams.

# Car-transporter Improvements

A CAR-TRANSPORTER, which can be adapted to carry general goods and so obtain return loads is shown in patent No. 858,834. (Carrimore Six-Wheelers, Ltd., and A. Line, both of Carrimore Works, Great North Road, London, N.12.)

The drawing shows a transporter on which vehicles can be carried on both the upper and lower decks. The slope of the decks makes them unsuitable for alternative loads and the remedy proposed is to make the lower ramp (1) a detachable member.

When this is removed from the position shown,

turned upside down and replaced on the top deck (as indicated in chain lines at 2) it creates a large area of flat platform on both decks. This can be usefully employed when return loads are available.

external splines (5), which carry the

inner member of a plate-clutch (6). The

outer plates are held in an extension

is to lock one bevel wheel to the cage

and therefore also to the crownwheel.

This renders the whole differential

inoperative, so that both bevel wheels

The clutch is operated by hydraulic

fluid which is fed to the end face of an

annular piston (8) and the patent also

shows the system to provide the hydrau-

lic pressure. This incorporates a pump

and hand-control valve, and uses oil

When the clutch is engaged, the action

(7), of the differential cage.

are positively driven.

858834

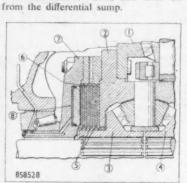
angle-members running from front to back.

Three cross-members (2) are attached by bolts which also hold the spring brackets. Four semi-elliptic springs (3) are used; these are joined by a rocking beam having arms of unequal length. This is done to cause the driven axle to be loaded more heavily than the trailing one, which is fully braked.

#### DIE-CAST ENGINE CASING

INTERESTING proposals for the rapid production of four-cylindered engines are disclosed in patent No. 858,593. This describes a scheme for forming the cylinders, crankcase and other parts by pressure die-casting. (Engineering Research and Application, Ltd., London Road, Dunstable, Beds.)

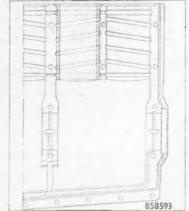
One of the novel features is that half a cylinder block and half a crankcase are cast in one piece, the joining surface lying



#### CHASSIS EXTENSION

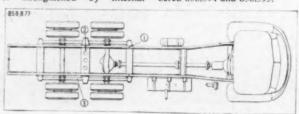
A CONSTRUCTION for modifying an existing vehicle to increase its load-carrying capacity forms the subject of patent No. 858,877. It is proposed to extend the frame side-members and to fit additional cross-members and a non-driven axle. (Universal Power Drives, Ltd., Aintree Road, Perivale, Middlesex.)

The drawing is a plan view of the extended vehicle. The original frame is cut at the point (1) and extra members are butt-welded on. The joined frame is strengthened by internal



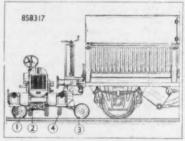
in the vertical plane of the cylinder bore axes. In other words, the cylinders are cast in semi-circles. The drawing, one of many, shows part of a cylinder block and crankcase.

In assembly, the cylinders would be fitted with liners, and the extreme accuracy of die-casting enables oilways and helical cooling passages to be provided. This patent is the first of three on the subject, the other two being numbered 858,594 and 858,595.



#### ROAD OR RAIL TRACTOR

A VEHICLE having two systems of wheels, one for use on the road, the other on railway lines, and intended for use in railway or works shunting yards, forms the subject of patent No. 858,317. (Rheinstahl Siegener Eisenbahnbedarf A.G., Dreis Tiefenbach, Kreis Siegen. Germany.)



The drawing shows the vehicle on its rail wheels, which lie at right-angles to the road wheels. The rail wheels are mounted on a hinged frame and can be swung down by hydraulic or other means, to raise the vehicle as shown. At the same time some of the load of the rail vehicle is taken over to increase the traction at the wheels, The pair of wheels (1) are lowered about a pivot (2), but the other pair (3) are mounted on a linkage that moves them outwardly as well, so that the load is applied within the wheelbase to prevent tipping.

One or both sets of rail wheels may be powered, the drive being transmitted by chains and sprockets, not shown. The tractor vehicle is otherwise of normal design, and because its road wheels (4) are set at right-angles to the others, it can be run on to the rail track at any desired point.

#### CLUTCH FOR LOCKING DIFFERENTIAL

PATENT No. 858,528 shows a hydraulically operated plate-clutch incorporated in a differential to enable a solid drive to be obtained. (General Motors Corp., Detroit, Michigan, U.S.A.)

The drawing shows part of a conventional differential gear, in which 1 is the crown wheel, and 2 the differential cage. The bevel wheels (3 and 4) are splined to the half shafts in the usual way.

One bevel wheel is provided with B18

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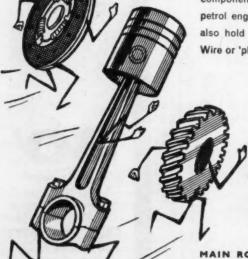
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OR sale in near funce—the to standardization of fleet—two September. 1960 A.E.C. Swheeled vehicles, small mileage on both vehicles, price well below list-further particulars may be obtained from B.C.F. Transport Co., Ltd., Berking Avenue, Yord Rd., Leeds, 9. Phone 2016.

A.E.C. 4 x 4, 6 x 6 Matadors, T. E. Cunliffe, 45
Northern 0832.
Northern 0832.

NEWPORT MOTOR SERVICES, East Usk Rd., New-nort Mon. Phone 59441. 1959 Medium-wheelbase A.E.C. Mercury tipper, 13 898-179

A.E.C. Matador. 4 x 4 and 6 x 6, tippers for sale.
Co. Durham. Phone, Consett 359. 898-276

1954 A.E.C. 8-wheeler, 9.6 engine, double-drive, air brakes, 25-ft. platform body in good running

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1949 A.E.C. 4-wheeler, 9.6 engine, Duramin cabs, in excellent running order, £375. Choice of several With box or flat bodies.

RUSH GREEN MOTORS, Langley, Hitchin, Herts.

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898-334

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A.E.C. price. Box CM827, care of "The commercial Motor."

ALBION

ALBION Caledonian 8-wheeler, Leyland 680 engine, 24-ft. Duramin platform body, immeaculate condition throughout. S. L. Davis, Cinderford, Glos. Phone 2116.

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1960 ALBION Chieftain, Tecalemit syndromic auto-sogal, tank, neater, 90 x 20 tyro, 18ft, 64n, x 7-ft, 6-in platform, disabing indicators. Lawron Gurages, 16-Marchested, Swinton, Phone, Swinton 2028, 808-101

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LEYLAND, ALBION, SCAMMELL. EARLY delivery of new ALBION Reiver,

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1955 ALBION Chieftain diesel long-wheelbase 16-ft driver, £475. A. and L. Vehicle Supply Co., Ltd., 27-44. Gravel Lane, Salford, 3. Phone, Manchester Blackfriars 1811.

#### Used Goods Vehicles (contd.)

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JACKERBY AND CO., Maybell's Farm, Ripple Rd.
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#### CLASSIFIED ADVERTISEMENTS INDEX TO HEADINGS

NEW GOODS VEHICLES FOR SALE	Page	61 75
USED PASSENGER VEHICLES FOR	35	13
SALE AND WANTED	11	79
NEW PASSENGER VEHICLES FOR SALE	200	84
MISCELLANEOUS VEHICLES FOR SALE		-
AND WANTED	9.11	85
MISCELLANEOUS ADVERTISEMENTS	8.0	85 87 92
MISCELLANEOUS ADVERTISEMENTS	XF	72

#### Used Goods Vehicles (contd.)

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A write full particulars and prices.

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1958 BEDFORD 19-12-cwt., in exceptionally condition throughout, choice of three Willesden 10046-8.

1957 BEDFORD 5-ton dieset long-wheelbase tipper, 1954 could tipper, specimen whicker the property of the could tipper, Pe engine, Establishe bulk body CONS MOTORS (HILL TOP), LTD., 127 Hill Iop. West Bromisch. Phone, Wednesbury 0470. 898-402

1959 BEDFORD 7-ton diesel, long-wheelbase drop-side truck, 300 engine, 2-speed axle, 9.00 x 20 tyres, specimen vehicle in every way, 2750. CON'S MOTORS (HILL TOP), LTD, 127 Hill Top, West Bromwich, Phone, Wednesbury 0470. 898-406

#### **Bedford Wanted**

BEDFORDS ALL TYPES WANTED. BEDFORDS WANTED FOR CASH,

CHANDLERS MOTORS, LTD.

71 GREENWICH SOUTH STREET. LONDON, S.E.10.

Greenwich 2033-4.

BEDFORDS wanted. BEDI-ORDS wanted.

BEDFORDS wanted! Bedfords wanted!

We want BEDFORDS! Trucks, tippers, vans, Lut etc. G.T.C. (Commercials), Ltd., 2 Addington Bow Rd., E.3. Advance \$242-3.

A BEDFORD for sale? Phone, Hamilton Motors, 466-490 Edgware Rd., London, W.2. Phone, Paddington 0022 (12 lines). Immediate settlement and best prices.

March 3, 1961—THE COMMERCIAL MOTOR 63 (Supplement)

Used Goods Vehicles (contd.)

1960 AUSTIN B.M.C. 6-wheel platform truck, 22-ft. body. York extension, 2-speed axle, in first-1960 MORRIS B.M.C. 4-wheel platform truck, 18-ft. A LSO other good B.M.C. vehicles in stock.

RUSH GREEN MOTORS, Langley Hitchin Herts.

DUNNS MOTORS. LTD.

TAUNTON AND EXETER. FOR COMMER AND KARRIER.

1957 B.M.C. Scammell tractor unit, choice of traffers. JACKERBY AND CO., Maybel's Farm, Ripple Rd., Barking, Essex. Dominion 5583.

COMMER

1957 COMMER 7-ton 153 platform truck, good condition throughout, £695. Arnold 7771.

EW COMMER York 6-wheel alloy 22-cu-yd. tsper-19, 9.00 x 20. 5-speed, air brakes, suitable grain, coal, cited, delivery his week.

FeW COMMER 3-ton pick-inp truck with drop aides, 2538.

EW COMMER 3-ton diesel pick-up with fixed aides, latest from the comment of the comment of

OWEST H.P. terms. Open sunday mutuanus.

JOHN JORDAN, official COMMER dealers. Manor Garage, Sandy, Beds. Phone 271.

COMMER 1960 TS3 16-ton Unipower 6-wheeler treble-drop-shed fruck, sir brakes, power steering. 5-speed yearbox, heater, flashers, etc., mileage 10,000, 9,00 x 20 tyres. £1,65,1957 [S3] 7-ton truck, power steering, and brakes, 5-speed gearbox, heater, very good condition throughout. £555 0.n.o. Coppermili 4777 and 4713.

898-213.

1956 COMMER TS3, 18-ft, body, 2-speed axle, 898-199 1959 COMMER normal-control diesel 15-cwt global pick-up, 20,000 miles, immaculate, £390. By8-196.

1958, June, COMMER 7-ton, Rootes diesel, body and gear by Edbro, 9,00 x 20 tyres, helper se A PPLETON-ASSOCIATES, LTD., Rootes Main Dealers, Hilderthorpe Rd., Bridlington 4456.

1960, September, COMMER TS3 diesel 6-wheel sion, Edbro twin ram tipping gear, air brakes, 9:00 to 20 tyres, very small mileage, bargain, £1,650.

1960, September, COMMER TS3 -1-on long-wheelbase truck, very low mileage, air brakes, 9:00 x 20 tyres, almost as new, £1,200.

RUSH GREEN MOTORS, Langley, Hitchin, Herts, 808-337

COMMER 4-ton blue boxvan, Mas, 1959, immaculate condition, £850 o.n.o. Cuffley 3421, 898-356

COMMER 1-ton petrol or diesel van. choice of color

COMMER Cob vans choice of colours, list price,
COMMER 7-ton forward-control standard drop-sider,
LL for immediate delivery.

PHOENIX MOTORS, LTD., Oxford Rd., Gerrards Cross. Phone, Denham 2716, Gerrards Cross 2545.

SPRINGALL, LTD.

1959 COMMER 6-wheel drop-side bulk tipper, air chassis, new engine, etc. cost £3,250, accept £2,100 o.n.o.
1959 COMMER 6-wheel Unipower truck, aluminium dudy, 5-speed gearbox, heater, etc. H.P. arranged. A. Springall, Ltd. Plumstead Common. S.E.18.

Commer Wanted
COMMER Karrier 2-ton truck, low mileage, petrol or diesel. Ewell 2382.

898-187 COMMER Rootes diesel, 11-ft. 9-in. wheelbase, wanted. Phone. Ealing 7987 898-438

DENNIS

DENNIS Max 8-ton lorry and Carrier 4-ton trailer both 16-ft. platform, good condition, well shad, £250. Craufurd Fabrications, Ltd., Denmark St., Maidenhead, Berks. Phone 2885.

1958 DODGE 6-wheel bulk tippers, in excellent order, alloy body, 9.00 x 20 tyres, bargain.

1956 DODGE 12-ton artic, unit, R6 ensine, 2-speed ask, expeed RUSH GREEN MOTORS. Langley, Hutchin, Herta, Sievenage 174.

#### Used Goods Vehicles (contd.)

DODGE DISTRIBUTORS

GLOUCESTERSHIRE, HEREFORDSHIRE, WILTSHIRE.

H. R. WILSON-SCOTT. LTD. MONK MEADOW, GLOUCESTER.

Phone. Gloucester 24447-8.

ALWAYS NEW MODELS AND USED VEHICLES IN STOCK.

PART-EXCHANGES WELCOMED. 22Z-830

1954 DODGE 6-cu.-yd. tipper. R6 Mark II engine.
ERWIN CANNY AND CO., LTD., Woolwich 8161after 7 p.m., Longfield 2524. 1956 DODGE, P6, long-wheelbase drop-sided truck, Phone, Bexleyheath 7108, 898-377

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DODGE DISTRIBUTORS FOR S.E. ESSEX. FOR YOUR

USED DODGE.

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OUR STOCK CHANGES DAILY.

New Model 3166T 8-ton DODGE chassis-cab, new Perkins 6 354 direct-injection emiting. 7-cu.-yd. steel body, new 6 354 direct-injection engine. USED 1955 DODGE 7-ton long-wheelbase truck, over-hauled, reconditioned engine.

DODGE FOR SALES, SERVICE, PARTS.

CHURCH ROAD MOTORS (SOUTHEND-ON-SEA), LTD.,

ARE THE PEOPLE CHURCH ROAD, HADLEIGH, ESSEX Phone, Hadleigh 57271 (10 lines).

1955 DODGE 146 AR6 7-ton drop-side lorry, 18-ft.
G. ROWBERRY AND SONS, LTD., 264 Oxhill Rd.,
Handsworth, Birmingham, 21. Northern 3539.

ARNOLD AND PILE, LTD.

DODGE MAIN DEALERS. ST. VINCENT'S ROAD, DARTFORD. Phone 26371.

CEE announcement under New Goods Vehicles. 898-491

K.J. MOTORS, LTD., offer:-1955 Series DODGE, 5-ton 5-cu-yd tipper, petrol WIDMORE RD., Bromley, Kent. Ravensbourne 3456. 898-454

DOGE distributors and Austin commercial dealers.

8-TON drop-side truck, 19-ft, 6-in, body, 2-speed axie, helper aprints, flashers, towing eyes, 35-gallon tank, before the control of the list price.

2 -TON tractor unit fitted Leyland engine, 8.25 x 20
12-ply tyrer, B6.0 rims, metal rear wings, flashers,
air brakes, towing eyes, list price.

COMBS COMMERCIALS (GUILDFORD). LTD.,
Fortsmouth Rd., Guildford, Surrey. Phone, Guildford

E.R.F. 8-ton long-wheelbase, wood drop-side body, twin-ram body, 1947, 4LW engine, £140, D. EASTWOOD COMMERCIALS, 27 Aston Rd.
North, Birmingham, 6, Ast 3467, 898-143

E.R.F. 7-ton 18-ft. platform lorry, 5LW engine, 5-speed gearbox, £195, or H.P. arranged.
HENRY EATON, LTD., 107 Palmerston St., Ancoats, Manchester. Phone. Ardwick 3146.

1956 E.R.F. 8-wheeler, 6LW engine, 25-ft. platform order, latest style cab, appearance and condition almost as new an exceptionally new which, bargain, low-loader 1948 trailer, knock-out asle, in good running order. R USH GREEN MOTORS, Langley, Hitchin, Heris, Stevenage 174.

1954 E.R.F., 4LK engine, 2-speed axie, 12-ft, drop-side tipper, £300, R. Justice, Winter Closes, Underwood, Notis. Phone, Langley Mill 3182; home-3625, 898-394

E.R.F. 8-wheeled tipper, 21-cu.-yd. steel body. Shalktone Buckingham. Syrsham 265. 898-417

FODEN

1951 FODEN FG 4-wheeler, 18-ft. platform.
S-cylinder Haulage Contractor. Phone, Pontardawe 3167. 898-9765 DISMANTLING 1953 FODEN 8-wheel tipper, all parts available. Langley Mill Commercial Vehicles, Ltd. Langley Mill 2623 (Notts). 898-164 Used Goods Vehicles (contd.)

PODEN Twin Steer, 1939, drop-side platform cab body, in very good condition, brakes, differential, ensine overhaul; this machine in excellent condition. Best offer Hire-purchase can be arranged. Overton Motor Services Phone, Kirkealdy 5973.

1951 Ex-W.D. FODEN 6-wheeler, double-drive flat 6400. R. Justice, Winter Closes, Underwood. Notts Phone, Langley Mill 3182; home, 3625.

Phone, Langier Min 3-00.

PODEN DG 8-wheeler 24-4t. platform, 6LW Gardner, 40 x 8 tyres, just off service. West Town Diesels. Broad Street Garage, Dewsbury, Yorks. Phone 3504, 898-450

FORD THAMES AND FORDSON

Thamer Trader 6D, long-wheelbase drop-side board with fall of with 174t. body, high-hoading board with fall of with 174t. body, high-hoading completely overhauled recently, including new crankshaft, bearings, liners, pistons, etc., £695. A. W. Watkin, Ltd. Biggleswade 2021-4. 898-23

TRADER 7-ton long-wheelbase, 1959, twin ram tipper, 14 cu, yd., fixed sides, excellent condition, £675.
TRADER 7-ton, 1959, short wheelbase, U-shaped body, PoRD 5-ton long-wheelbase drop-side, 1955 (August), PoRD 5-ton long-wheelbase drop-side, 1955 (August), PoRD 5-ton long-wheelbase drop-side, 1955 (August), PoRSTWOOD COMMERCIALS, 27 Aston Road North, Birmingham 6. Ast 3467.

#### W. HAROLD PERRY, LTD.,

MAIN FORD DEALERS, FINCHLEY

1959, December, THAMES Trader 7-ton 6D long wheelbase platform truck low mileage, many 1959 THAMES Trader 7-ton 6D 7-cu.-yd. lippers new Anthony metal bodies and lipping gears 1959 THAMES IT AND THE STREET OF THE STREET

many extras, £1,795.

1960 THAMES Trader 7-ton 6D drop-side truck 8,000 miles, £975.

GOOD selection of Thames and Bedford light van many factor of the property of the proper

HILLSIDE 8888.

1956 FORD Sussex, P6 engine, coachbuilt body, is excellent condition. Brown Bros., Bluevale St., Soc. 1, Soc.

1959 Thames Trader 7-ton, Anthony hoist tipper gear choice of two, guaranteed, £825. Arnold 7771

THOMAS MOTORS, LTD., MAIN FORD DEALERS,

WHITEGATE DRIVE, BLACKPOOL. Phone 6333.

OFFER THE FOLLOWING FOR IMMEDIATE DELIVERY.

ORD Trader 7-ton 108-in, wheelbase 6D, 6-cu, yd. Autolifts, F-S tipper, 9.00 x 20 12-ply tyres, heater, flashers, factory-painted cab (red.).
FORD Trader 7-ton 108-in, wheelbase 6D, 6-cu, yd. Edbro F-S tipper, 9.00 x 20 12-ply tyres, heater, flashers, factory-painted cab (blue).
FORD Trader 7-ton 108-in, wheelbase 6D chassis-cab, heater, flashers, 9.00 x 20 12-ply tyres painted red. FORD Thames 4-ton 157-in, wheelbase 6D chassis-cab, heater, flashers, 15-cut, chassis-cab, extra passenger to the form of the flashers. 15-cut, chassis-cab, extra passenger weat, heater, etc. (primer).

1958 Trader 6-yd. tipper, 6D diesel, really nice con-1958 Trader 6-yd. tipper, 6-cylinder petrol engine. 1958 Very low mileage, £465. 1958 Jown mileage, £465. 1955 FORD long-wheelbase tipper, steel drop-side body, reconditioned P6 diesel, new tyres, £325. Edgware 2572.

4-TON Thames Trader, low frame, 152-in. wheelbase, 4D diesel, chassis-cab.

OAKTHORFE MOTOR CO., North Circular Rd. N.13.
898-80

Selection of used Thames Trader tippers

NORMAN REEVES (MOTORS), LTD., 215-218 HIGH STREET, UNBRIDGE, MIDDX. Uxbridge 3444.

PORD Thames van. 1957, D4, one owner, heater, very good condition, 35,000 miles, roll-up back, approx. 700 sq. ft., £450 o.n.o., cost new £1,900.

P. J. UNDERHILL, Central Garage, Hay-on-Wye, 898-161

1955 (Late) FORD THAMES 4D 3-ton van, maroon, hauled, very good condition, £295. LTD., Giastombury, Somerset Phone, Glastombury 3355.

Used Goods Vehicles (contd.)

CHURCH ROAD MOTORS (SOUTHEND-ON-SEA), LTD.,

OFFICIAL FORD COMMERCIAL DEALERS.

NEW 7-ton FORD long-wheelbase truck.

NEW Trader 75 7½-ton FORD 7-cu-yd, Anthony tipper, drop side.

NEW FORD 15-cwt, pick-up truck.

NEW FORD 12-cwt, pick-up truck.

NEW FORD 7-cwt. van. NEW FORD 5-cwt. van. USED FORD commercials.

1955 FORD 4D Luton, 1,100 cu. ft., in primer, in very good order.
1957 FORD 4D, 1,700-cu.-ft. Luton, new engine now being fitted.

IF IT'S

FORD COMMERCIALS. PHONE, WRITE OR CALL, CHURCH ROAD MOTORS (SOUTHEND-ON-SEA), LTD.,

HADLEIGH, ESSEX. Phone 57271 (10 lines).

NEW FORD 5-cwt. vans, choice of colours, £361,

1960 FORD County 6-wheeler. 24-ft. platform, trall-ing axle, 9.00 x 20. unladen weight 4 tons 16 1960 FORD Trader 6D 7-ton, 18-ft. platform, body 1950 6D Trader 6D 7-ton, 18-ft. platform, body 20 x 20, £1,160. tipper, 6-yd. steel body, 8.25 FORD Trader 60 tipper, 6-yd. steel body, 8.25 20, very low mileage, heater, flashers, etc.,

1959 FORD 7-cwt van. £235.
1955 FORD 4D long-wheelbase tipper, recent repaint.
1955 FORD 4D long-wheelbase 16-ft. drop-sider,
1952 FORD 4D long-wheelbase 16-ft. drop-sider,
1952 FORD ET 6-tonner, 16-ft, steel drop-sider
OFFICIAL FORD dealers.

JOHN JORDAN, Manor Garage, Sandys, Beds. Phone. TRADER parts for sale See Ford spares. Coppermill 898-214

1960 THAMES Trader, 4D diesel, low loader, 13.000 miles, guaranteed, £565. Payments. Oldfield. 11 Russell Gardens. W.14, Park 8566. 898-418

#### GORDON KING MOTORS, LTD., FORD AND THAMES DEALERS.

TRADER 4D diesel 4-ton chassis, fitted with 1,250-cm, ft. low-loading Luton body, new and unregistered ex works for early delivery, £1,220, chassis, fitted with 1,250-gatt, body as above, immediate defivery from

1 1,256-cu.-ft. body as above, immediate delivery from stock, £1,256-cu.-ft. body as above, immediate delivery from stock, £1,246-cu.-ft. ft. 1959 and 7-cu.-yd. tipper. Anthony gear. £750.

MITCHAM LANE, S.W.6. Streatham 3133-4, 898-320

ONE 5-ton 6D long-wheelbase truck, 1958, good con-dition.

LATE 1955 3-ton THAMES 4D drop-side truck, nice 1959 rida on 9.00 x 20, immaculate vehicle.
COOMBS SERVICE STATION (FORD Main Dealers).
By-pass Rd., Guildford 62962.

1955 £165.
1956 excellent condition, £259. Phone, Coppermil

1960 THAMES Trader 6D diesel long-wheel drop-side truck, £765. Dawnier Motors.

1960 THAMES Trader 7-ton long-wheelbase truck.
1960 THAMES Trader 7-ton long-wheelbase truck.
1960 THAMES Trader 7-yd, tipper, Edbro gear,
THAMES Trader 7-yd, tipper, Edbro gear,
low mileage, £850.
A LSO several other good Traders in stock. Terms and
exchanges.
R USH GREEN MOTORS. Langley, Hitchin, Herts.
Stevenage 174.
898-339

BENTLEY BROS. (SHEFFIELD), LTD., VAUXHALL AND BEDFORD MAIN DEALERS, 71 THE WICKER, SHEFFIELD, 3. Phone 29281.

1956 FORDSON Thames. 4D engine, meat-container body, ready for immediate use, £195. 898-237

1959, October, FORD 6D Trader 7-ton short-wheel-base tipper, new body and gears, 2,000 miles Cox's MOTORS (HILL TOP), LTD., 127 Hill Top, Wes; Bromwich. Phone, Wednesbury 0470, 898-403

1960 THAMES TRADER, 7-ton tipping chassis-cab, 108-in, wheelbase, 9,00 x 20 tyres, flashers, painted green, excellent condition, choice of two, 6750

MEARS MOTORS, Upper Richmond Rd. West, S.W.14.
Phone, Prospect 2235. 1955 2-ton FORD 4D van, double rear doers, one C-licence owner, very good condition.

Bealeyheath 7108.

1956 Thames 2-ton 4D diesel standard ván, clean, 1955 18495. W.E.M. Below. 1955 cab, good, £195. W.E.M. Below. 1956 cab, good, £195. W.E.M. Below. 1956 truck, excellent, £245. W.E.M. Motors (Wimbledon), 506-508 Kingston Rd, London, S.W.20. Phone, Malden 5342. Cherrywood 4568, 1480. 898-364

1959 THAMES Trader artic unit, S.A.E. coupling.
1960 THAMES Trader artic unit, ffith-wheel
1960 THAMES Trader artic unit, ffith-wheel
1960 THAMES Trader of-wheel platform, power
1960 THAMES Trader of-wheel platform, power
1960 Spoil, exhibition model.
1958 THAMES Trader stric unit, S.A.E. coupling.
1961 Spoil, exhibition model.

958 THAMES Trader Luton, 900 cu. ft., £700.

1958 THAMES Trader 7-ton, platform body, £700.
1957 THAMES Trader 5-ton truck, choice of two.
1955 THAMES P6 tipper, £165.

1958 THAMES Trader 5-ton 6D 6-cu.-yd, tipper, FRANK O. GATES, LTD., Gates Corner, E.18. Wanstead 6633.

1958 Trader 5-ton truck, 6D, one owner, £485. Phone, 898-472

1957 FORD Trader 5-ton 6D drop-side tipper, 2-speed axle.
CARMO, of London, Leighton Rd., London, N.W.S., 698-536

1952 FORDSON 10-cwt., fitted with special gown van nical condition, £85. Johnsons Motors (Rushden), £1d. Washbrook Rd., Rushden, Northants. Phone, Rushden 3221.

1959 FORD 15-cwt, van, good condition, very low mileage, one owner, 4325.
CONTAY MOTOR WORKS, 17D., 164 Southwark Bridge Rd., S.E.I. Waterloo 6162-3.

1958 Thames Trader 5-ton tipper, long-wheelbase, very good condition, £675.
1956 Thames 5-ton 4D long-wheelbase drop-side track, £350.

1956 Thames 3-ton 4D long-wheelbase drop-suc was 250.
1959 Thames 2-ton van, in excellent condition, £675.
1959 Thames 7-cwt, van, with extras. good condition, £475,
1958 Thames 6-ton tipper, good condition, £475,
1960MBS COMMERCIALS (GUILDFORD), LTD.

BS COMMERCIALS (GUILDFORD), LTD., tsmouth Rd., Guildford, Surrey. Phone, Guildford, 898-554

Ford Thames and Fordson Wanted
WANTED, FORD 4D vans and Perkins, all capacities.
From 1955 onwards. Chandlers Moiors, Ltd., 71
Greenwich South St., London, S.E.10. Gre 2033-4.
898-359

GUY
1958 GUY Warrior 6-wheel flat, £1,300.
HAMBLINS, of Rushden. Phone. Rushdem 3211.
Northamptomblire. 898-118

T.G.B. MOTORS. LTD..

PRIMROSE ENGINEERING WORL WOONE LANE, CLITHEROE, Phone, Clitheroe 785.

IMMEDIATE DELIVERY.

OFFER THE FOLLOWING

NEW VEHICLES. GUY Otters, 9 ft. 9 in. and 14 ft. 9 in., 4LK engine, 13-ft, wheelbase, 8.M.C. engine, 2-speed axle.
GUY Warrior, 9 ft., 15 ft. 9 in., 18-ft. 2 in. wheelbase, 6.M.C. engine and 2-speed axle.
GUY Warrior, 13 ft. 9 in., 15 ft. 9 in. and 18 ft. 2 in., 11 ft. 9 in., 15 ft. 9 in. and 18 ft. 2 in., 11 ft. 9 in., 15 ft. 9 in. and 18 ft. 2 in., 11 ft. 9 in., 11 ft. 9 in., 12 ft. 9 in.,

EARLY DELIVERY OF INVINCIBLE 6- AND 8-WHEELERS, 6LX ENGINE. A LLOY underframe platforms. Primrose steer and third axless, Syndromic lubrication system fitted, painting, lettering, etc.

1958 Otter, 18-ft. platform, Gardner 4LK, £650.
898-473

LAND ROVER

1960 LAND ROVER, long wheelbase, diesel, good condition, £720.

1900 selection of used LAND ROVERS always in COOMBS COMMERCIALS (GUILDFORD), LTD., Portsmouth Rd., Guildford, Surrey. Phone, Guildford, 898-553

WELCH'S GARAGE (STAPLEFORD), LTD.. LONDON ROAD, STAPLEFORD, CAMBS. 1955, September, regular LAND ROVER, 23,000 miles from new, one owner, £200.

PHONE, SHELFORD 3017. 898-547

LEYLAND
AT Winfield's, Wolverhampton St., Walsall 27161. EYLAND Comets, long and short, tippers and trucks, Being replaced by new vehicles, From £500, 903-9745

1958 LEYLAND Comet 190, 20-ft. platform, Eaton dition, £1,300. Valley Motor Services (B.C.), Ltd., Rishops Castle. Salap. Phone 172. 898-9780

Used Goods Vehicles (contd.)

LEYLAND, 1959, Leyland Super Comet tractor unit.

OSWALD TILLOTSON, LTD., Summit Works, 898-55 1957 LEYLAND lwin-steer 6-wheeler, 24-ft, platford body, air brakes, in excellent running order.
1956 LEYLAND 8-wheeler, 24-ft, platform, double drive, air brakes, one owner, in excellent run

RUSH GREEN MOTORS. Langley, Hitchin. Herts. 898-340

DUE to standardization two LEYLAND Super Comcision 1959 and 1960, 23-ft. 6-in. flats. first-class condition. Offers to J. Striand (Notim.), Ltd., Lilac Grove, Beeston. Nottingham., Phone 255283.

EYLAND Comet, June, 1955, 19-ft, flat, very condition, W. and J. Riding, Ltd., Longbridge, Lione, Longbridge 3241.

1948 LEYLAND Beaver truck, 600 engine, S.W.18. Vandyke 6188.

1955 LEYLAND Comet 90, normal control to wheelbuse tipper, steel body. Eaton 2-sp COX'S MOTORS (HILL TOP), LTD., 127 Hill Top. West Bromwich Phone, Wednesbury 0470, 898-495

> BROWNHILLS MOTOR SALES. LEYLAND. ALBION. SCAMMELL

AUTHORIZED DEALERS, EARLY delivery of new LEYLAND Comets and Super-SEE our advertisement under Used Goods Vehicles Unclassified.

BROWNHILLS MOTOR SALES.

WATLING STREET (AS), BROWNHILLS, STAFFS.
Phone, Brownhills 2307, 2336 and 2392.
898-397

L EYLAND 1953 Comet 90 17-ft, truck, on good tyres, a sound and thoroughly clean vehicle, £495. W.E.M. Motors (Wimbledon), 506-508 Kingston Rd, London, S.W.20. Phones, Malden 5342; Cherrywood 4568, 1480, 898-365.

1955 LEYLAND Comet with alloy platform body, CARMO, of London, Leighton Rd., London, N.W.5. Guilliver 5555.

1952 LEYLAND Octopus 8-wheeler, 24-ft. dro excellent condition, £1.050. Phone, Upm

Leyland Wanted

LATE-TYPE LEYLAND Beaver 14B10 tractor unit required, must be in good condition. COX'S MOTORS (HILL TOP), LTD., 127 Hill Top., West Bromwich, Phone Wednesbury 0470, 888-464

MORRIS AND MORRIS-COMMERCIAL EX-W.D. 4 x 4 tractors with winch, from £100 each. Cundey and Stewart, Ltd., Alfreton, Derbyshire.

PALMERSTON OF KINGSTON,

MORRIS AND MORRIS-COMMERCIAL RETAIL DEALERS.

RELIABLE used vehicles in stock.

PALMERSTON COMMERCIAL MOTORS, LTD., 75-77 Penthyn Rd., Kingston 5618.

1960 MORRIS-COMMERCIAL 7-ton long-wheelbass heater. 9.00 x 20 (14-pp) tyres. cost £1.600, bargain £1.175. The Barnstaple Motor Co., The Square, Barn staple. Phone 2264. Telex 4679.

1959 MORRIS 3-ton forward-control diesel truck, low mileage, £625.

CARMO, of London, Leighton Rd., N.W.5. Gullver 898-537

RENAULT GORDON KING MOTORS, LTD., SOUTH LONDON RENAULT DISTRIBUTORS.

NEW RENAULT Estafette 10-12-cwt, vans, high-rool models, standard body (available with side-loading door), pick-up with tilt, also 8-scater passenger vehicle available for early delivery. Demonstration vehicles available now.

MITCHAM LANE, S.W.16. Streatham 3133-4.

SCAMMELL

PARADISE MOTORS, Geldard Rd., Birstall, York-shire. Phone, Morley 1029. 20-ton SCAMMELLS and 25-ton low-loader trailers, new cab and latest-type bonnets and wings.

SEDDON
1952 SEDDON Mk. 5 diesel, 7-ton 17-ft. drop-sider.
1954 SEDDON Mk. 12 diesel 8-tonner, 18-ft. drop-side, 2-speed axle, good tyres, ex large C license neet, choice of two.

1955 SEDDON Mk. 5 diesel, 7-ton 16-ft, 6-in, flat.
NEW SEDDON Mk. SEDDON diesel 7-tonners, Comet engine, ex R YLAND GARAGE, LTD., Ryland St., off Broad St., Birmingham, 16. Edgbaston 4501-5. 898-130

1950 SEDDON 5-ton long-wheelbase drop-sided truck, and in excellent condition, £250.

STORMONT ENGINEERING CO., LTD., Tunbridge Wells, Phone 2032.

Newport Motor Services, East Usk Rd., Seddon distributors for Monmouthshire.

March 3, 1961—THE COMMERCIAL MOTOR 65

Used Goods Vehicles (contd.)

1952 SEDDON 3-Jon P4 platform Jorry, £250. 1949 50 SIDDON 6-ton P6 long-wheelbase flats from E125 or terms. HINRY EATON, LTD., 107 Palmerston St., Ancon's, Manchester, Phone, Ardwick 3146, 898-282

SENTINEL

1955 7-8-ton flat, mechanically perfect, £250 or flatfleigh, Suffolk, 2277. 899-9709.

1952 SENTINEL 4-wheeler, 6-veylinder engine, air bakes, trailer model, £150 or will dismantle Lawrence, Alfreion, Derbys, Phone 505. 898-174

SENTINEL 7-ton long-wheelbase platform lorry, reasonable price and part-exchange arranged.

11 ENRY EATON, LTD, 107 Palmerston St., Anconts, Manchester, Phone, Ardwisk, \$140.

THORNYCROFT

EX-W.D. 4 x 4 trucks good selection. Cundey and Stewart. Ltd. Affection. Derbyshire. 898-803

TRUJAN
TROJAN 25-cwt. van. 360 cu ft. body by Bunallack, silding doors, P3 engine, ex demonstrator, 700 miles only, as new £700. Thornes, Harlestone Rd. Northampton Trojan Distributors. Phone 33155.

1959 TROJAN 20-cwt. diesel; van. 3.000 miles 1rom new, heater, rådso. £450.

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1953 AUSTIN 5-ton platform.
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1958 BEDFORD Boys 6-wheel platform truck, one wayer from new, 22-ft. 6-in platform, 300-cu-in, diesel engine, 9:00 x 20 tyres all round in excellent oundition; this vehicle has had a replacement engine fitted by ourselves and would be available for delivery at the dof February Ewill demonstrate this vehicle anywhere and the time. Choice of these contracts of the contract of the c

end of February

WE will demonstrate this vehicle anywhere and at any
time. Choice of three.
1959 gentrol 5-ton 300-cu.-in. diesel normalimmaculate condition, ready for immediate acrometion.
1957 with Leyland Comer 350 diesel engine, in very
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1958 BEDFORD 7-ton long-wheelbase platform truck, 1958 BEDFORD 7-ton long-wheelbase platform truck, 1955 BEDFORD 7-ton platform trucks, R6 engine, choice of three, all yety reasonably priced, and

ready for immediate use. But gardner engine, trailing asie, to clear, £195.

1957

BEDFORD 7-ton 300-cu.-in. diesel long-wheel-base platform truck, one owner.

BEDFORD 0-type 5-ton long-wheel-base insulated boxvan, this vehicle is in 1956 condition and ready the condition and ready and the condition of the transpendiate use, having been used in the past for the transpendiate use, baving been used in the 1954 BEDFORD 30-cwr. Spuring van, petrol engine.

1954 SEDDON P6 long-wheelbase platform truck, in 1954 above-average condition, 5-speed gearbox, 1958 MORRIS BMC, diesel 25-cwt, van, low mile-1958 age, very good condition throughout, 1955 DODGE normal-control long-wheelbase platform truck, 2-speed axle, petrol engine, 900 tyres, 3-ciece wheels. 1954 DODGE P6 diesel normal-control platform

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1956 B.M.C. diesel forward control tractor unit.
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1953 Fuel tank, complete with an excellent 23-ft.
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1958 BEDFORD 7-ton medium-wheelbase twin ram tipper Pilot tipping gear. 2-speed axie. 3-piece wheels, low mileage. immaculate, ideal tipper for bulk wheels, low inflease immaculate, towar superalack or bulk coal.

1955 COMMER TS3 long-wheelbase tipper, steel
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two BEDFORD R-type forward-control 4-wheel
tippers, with twin ram tipping sears. U-shaped all-metal
bodies, £375 each
BEDFORD 7-ton short-wheelbase U-shaped
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DDDGG per prod ensine.

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2050 Each weelbase tipper,
engine fitted three months ago.

ALL the vans, caravans and conversions advertised last week have been sold.

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SHORT-WHEELBASE diesel tippers, REDFORD normal-control, no older than 1957.

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23-FT. 10-ton trailers. -TON vans BEDFORD 7-ton long-wheelbase diesel tippers, twin nam gears.

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EDFORD 7-ton I6SCI, normal-control, Bedford 300 engine, 2-speed, 4-speed, 9.00 x 20 12-ply to rear, 8.25 x 20 12-ply to from, complete with Teleholat tipping gear and wood drop-side body, £1.566 10s.

EDFORD 104-ton KFAI tractor unit, Bedford 300 diesel capine, air brakes, 2-speed, 5-speed, 8.25 x 20 14-ply

Benaine, air brakes, 2-speed, 5-speed, 8.25 x 20 14-ppy tyres, £1,345 108.

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78-78-78-88-88-80-88-fon semi-four-fonder, 18-ft, lower bed,

70RK WIA Scammel 11-ton 25-ft. platform trailer. with 2-ft. headboard, 9.00 x 20 12-ply tyres. spare seel carrier, 6598 4s. 60.
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B.M.C. 1957 diesel rigid 6-wheeler, platform body.
PRISTOL 1953 8-wheeler long-wheelbase platform, £725. BEDFORD 1956 7-ton, Baico extended, 26-ft, piatform, with Bedford 300 diesel engine, £650.
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DODGE 1955 RS 7-ton long-wheelbase drop-side, go BEDFORD 1954 7-ton R6 long-wheelbase, £275.

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A.E.C. Mark II, 1956. Pilot twin underbody gear, wood fixed-side body in exceptionally good condition throughout. ready for immediate hard work.

E. 1,000.

E.R.F. 1949, 4LW Gardner, standard wood-body
B.M.C. 1956, iona-wheelbase tipper, sood con1956, iona-wheelbase tipper, sood conBEDFORD, 1954, 7-10n R6, U-shaped steel-body tipper,
good condition, £450.

EYLAND Comet, ECC/4R, 1957, normal control,
for an expectation of the condition of the conditio

TRAILERS AND ARTICULATED.

BEDFORD. 1988, 10-ton Scammell tractor unit, 300 diesel, complete with two Scammell 20-ft, platform trailers, one is fitted with bulk grain-carrying body, gravity discharge, all in good condition throughout

pravity discharge, all in good condition throughout, El. 150, PS2. R6 diesel Dyson 10-ton semi-low loader, twin oscillating axies, eight whecls in line, itted with winch and loading ramps, good condition throughout, 1650. Trader, September, 1959, 6D tractor unit, no coupling, 6500. Condition throughout, 1650. Trader, September, 1959, 6D tractor unit, S.A.E. coupling, complete with new Tasker Seton semi-low-loader, 18-ft, lower bed, £1,450. Condition, 1650. Cond

BEDFORD, 1954. S-type tractor unit, R6. no coupling.

E.R. 1946. Gardner SLW tractor unit, in exceptionally good condition throughout, 4475.

A LBION tractor unit, fitted with Meadows 4-sylinder

A LBION tractor unit, fitted with Meadows 4-sylinder

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Oboard, used a few times only, in absolutely as-new

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NEW Coles 10-tor. Regin diesel-electric crane. 40-ft.
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957 body. E.R.F. twin steer, SLW engine, 20-ft. platform 955 959 body. GUY Warrior, A.E.C. 7.75 engine, 2-speed axle, 20-ft, alloy platform body. MAUDSLAY Meritor 8-wheel tipper, doubte drive. 950

1950 MAUDSLAY Meritor 8-wheel tipper, double 1959 LEYLAND Super Comet tractor unit, fifth-tion below. Company of the condi-tion below. Charles a condi-bet of the condi-tion of the condi-tion of the condi-persion of the condi-tion of the condition of the condi-tion of the condition of the condi-tion of the condition of the condition of the condition of the condi-tion of the condition of

coupling.

L crawler tractor, Model 22, P3 diesel engine, etc with Trak-grips.

E.R.F. twin steer, 5LW, 20-ft, platform body. 1953 1957

ALBION Chieftain, 4-cylinder Aibion engine, 17-ft, 6-in. platform body. A.E.C. Mammoth Major 8-wheeler, 9.6 engine, double drive, 24-ft, platform body. COMMER TS3, 2-stroke engine, 17-ft. 9-in drop-sided body. B.M.C. tractor unit, 6-cylinder diesel engine, fith-wheel coupling. 7, engine, 18-20-ft, plat-AUDSLAY Mogul, 7,7 engine, 18-20-ft, plat-1958 1959 1958 948 form body. MORE 4-wheel trailer, 16-ft, wood platform

SEDDON, 4LW engine, 2-speed axie, 18-ft-body. ALBION Chieftain, 4-cylinder Albion 6-speed gearbox, 18-ft, platform body. Choice 1959

6-spred gearbox, 18-ft. platform body. Conice PODEN 6-wheeler. 2-stroke engine, air brakes. 22-ft. 6-in. wood platform body, immaculate. ALBION (Clydesdale tractor unit, Leyland 375 engine, fifth-wheel coupling. A.E.C. Mercury tractor unit, 7-75 engine. 2-speed axie, fifth-wheel coupling. GUY light 8-wheeler. 7-75 engine. 2-speed axie. 24-ft. platform body. B.M.C. tractor unit, 6-cylinder diesel engine. ALBION Relyer, Leyland 350 engine, double drive 22-ft. 6-in, platform body. COMMER T53 2-stroke engine, 18-ft. platform body. 1959 1959 1958 1958

1960 1956 1958

1930 body
1958 COMMER TS3 2-stroke engine, 18-ft. platform
1958 COMMER TS3 2-stroke engine, 18-ft. platform
1958 2-speed axie, 17-ft. platform body.
1955 24-ft. platform body.
1955 24-ft. platform body.
1959 drive, 24-ft. 6-in. platform body immaculate.
1960, May, Thames Trader, 6D engine, 20-ft. platform body.
1954 LEYLAND Conet 30, 6-wheeler, Boys axie.
1954 20-ft drop-side body.

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W B.M.C. 7-tenner drop-sided lorry W FORD Trader, 160-in, wheelbase, 71-ton, 9:00

FORD Trader, long wheelbase, Anthony hopw FORD Trader tractors with fifth-wheel coup EW E.R.F. 4.4 (G), Eaton 2-speed, 20-ft. flat.

EW ALBION Clydesdale, long-wheelbase

EW ALBION Caledonian W LEYLAND 8-wheeler

EW BEDFORD TK 7-ten 120-in, wheelbase tippers, steel drop-sided bodies, see the tractor rated with Scammell coupling and Leyland Comet engine. EW A.E.C. Mustang twin steers.

EW A.E.C. Mercury Mk, II, 11-ft. tipper chassis and cab. EW A.E.C. Mercury Mk, II tractors. Mk. II. 11-ft. 6-in. wheelbase

EW A.E.C. Mercury long wheelbase.

EW A.E.C. Mandator tractors, fitted 11.3 engines.

EW E.R.F. tractors, LX engines

EW FODEN tractor unit with LX engine EW FODEN 8-wheeler, 12-speed box.

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959 (Rebuilt) ALBION H.D. 8-wheeler

1950 ATKINSON, 6LW, double drive, 24-ft. flat

1950 MAUDSLAY, 6LW, double drive, 24-ft. flat.

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1957 ALBION Reiver, double drive, Albion engine, 1946 ATKINSON, SLW, 22-11. 6-in. platform body,

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1960 FORD Trader, fitted with drop-sided body.

1959 FORD Trader, fitted flat platform body, 9.00 s 1959 20 tyres, immaculate condition, £900. 10LY and September, 1959. COMMER TSS, fitted 9.00 tyres, 18-ft, 6-in, bodies, immaculate condition; choice of two.

of two.

ALBION Cludesdale: Comet engine and
Hydrows brakes 20-11. flat.
1955 engine, immaculate condition, E000.

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by C-licence operator, choice of three.

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1954 E.R.F., SLW, 2041. Ball, John 2 of Fris. John 1952 A. E.C. Monarch, Bitted 2041. alloy body, 10.00 x 20 tyres, immaculate. C-licence operator, 1952 ture van. 1950 GUY Otter, 4LK engine, drop-side body, £350. MAUDSLAY, 7.7, filted new cab. 20-ft. body, Lumber of 1952 ALBION Chieftain 16-ft. flats.

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A UGUST, 1952 LEYLAND Comet 90 tracturs, 2-speed asiles, ex petrol company, choice of two.

1958 new.
1957 immaculate condition. 15:6. Scammell coupling, immaculate condition. 15:6. Scammell coupling, which, olive, titled 12-speed box and power which.

1956 1956 FODEN, bl.W. filted fifth-wheel coupling, 2-speed axles, C-licence operators, 1955 coupling, 2-speed axles, C-licence operators, 1953 LEFLAND Comet 90, 2-speed axle, Scammell coupling, 428, 1943 SCAMMELL, 6LW, fitted fifth-wheel coupling

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(Continued in next column)

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1948 E.R.F. Twin Steer, Gardner SLW ensine, 20-ft.

1954 E.F. Twin Steer, Gardner SLW ensine, 20-ft.

1954 E.F.Y.AND Octopus, Gouble-drive rear axles, and condition.

and condition. 7-ton 150-in-wheelbase chassis and cab,
N in stock, immediate delivery.

1956 ABION Rever, Leyland cozine, 22-ft. platform
body, double drive, 9,00 x 20 tyres, in very

1950 A.E.C. Monarch, 7.7-litre engine, 20-ft, plat-1950 form body, 9.00 x 20 tyres, in good condition 1953 THORNYCROFT Stardy, Gardner 4LK engine, 10-ft, 6-in, drop-aided body, in fair condition

1954 E.R.F. 8-wheeler, Gardner 6LW engine, 24-ft. drop-sided body, double drive, 9.00 x 20 tyres,

in good confidence body tember of the box on, 20 ft. by floor, 900 t. Austin FORD Thames 6D boxvan, 20 ft. by floor, 900 t. 7 ft. by 7 ft., inside measurement, with flat 1958 FORD Thames on outside the second fill of the form of the f

lent condition.

1955 E.R.F. 5.4(6). 51.W Gardner engine. 18-ft. dropsided body. D.30 isrex, in excellent condition.

1951 E.R.F. 5.4(4). Gardner engine. 16-ft. dropsided body. 9.00 x 20 tyres, ex C-licence user.

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1958 ALBION Chydesdale. 21-ft., platform body, performed the condensation of the condensation of the condensation of the condensation. The condensation of the conden

class order throughout.

1956 ALBION Reiver, 6-wheel, double-drive axie.

1956 21-ft. 6-in, platform body, immaculate condi-

1956 1-11. o-in. platform body. mmaculaite condition introduphouther, A. E.C. 9.6 Majestic twin steer, air pages of the practice of the practi

1949 MAUDSLAY Meritor, 9.6 A.E.C. engin 1948 SEDDON P6 platform lorry, good order.

1049 LEYLAND Comet platform lorry, ex-brewer tyres as new, good mechanical and body orde A.E.C. Matador, 9.6 unit, 18-ft. platform lorry

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EW FORD Thames Plaxton Embassy 41-scater, fitted with Perspex quarters, Formica side panels, heaters, o and microphone, interior red moquette, immediate

New FORD Thames Duple Yeoman 41-seater, fitted with Perspex quarters, Formica side panels, heaters radio and microphone, interior red moquette, immediate

1960 Thames Consort 41-seater full-luxury Plaxton body, fitted radio and heaters, Formica side panels, many other extrus, small mileage, as new, certifi-

1959 BEDFORD, SBI 41-seater full-luxury Duple the Record of Rines 1969 body, fitted with radio and heater, also main other extras, certificate of fitness 1966; choice of two.

1956 BEDFORD, 41-seater full-luxury Plaxton body, panels, heaten, mereor grey and red moquette, in exchange the recording incombout, now being recertified, choice of two.

of two.

1956 Duple body with Perspex quariers. Formice build panels, heaters, public address system, interior fawr lust been recertified, choice of two.

1955 ham Seasual body, front entrance, radio and heater, in good clean condition throughout.

htness 1965.

BEDFORD Super Vega, 41-seater luxury

Duple body, fitted with radio and heater

Formica side panels, top sliding windows, interior autumn

int, in good clean condition throughout, certificate of

1955 COMMER TS3, 39-seater full-luxury Plaxter Venturer body, fitted with heater, lift-up root vents, in good clean condition throughout, certificate of

Biness 1964.

1955 LEYLAND Tiger Cub, front entrance. Eater Saguill body, fitted Formica side panels, heaters, clear condition throughout, certificate of fitness 1964.

1954 BEDFORD Super Vega, 36-seater full luxury building bedy, fitted with heater, lift-up roof words, in good clear condition throughout, certificate of seaters, lift-up roof condition throughout, certificate of seaters, lift-up roof seaters, in good clear condition throughout, certificate of seaters.

Biness 1964.

1952 A.E.C., 9.6 engine, full-front 39-scater, full 1952 luxury Whitson observation coach, good tyre in good clean condition throughout, one owner since new, certificate of fitness 1962.

1957 BEDFORD Super Vega, 37-scater full luxury moquette, good clean condition throughout, scritticate of moderate 1967.

1951 BEDFORD Vega. 7 ft. 6 in. wide, 33-seater full tuxury Duple body, fitted heaters, Formica side panels, good clean condition throughout, certificate of 1950 ALBION. 35-seater full luxury long-well gree body, fitted with healer, interior blue pattern moquette, in good clean condition throughout, certifica

of fitness 1963.

1948 DAIMLER, fitted with 1953 Burlingham Scagull
body, 36-seater, fitted heater, Perspex quarters,
in good clean condition throughout, certificate of fitness

1963.
1947 -48 BEDFORD Vistas, 29-seater Duple bodies, certified 1961-62; choice of several.
1947 -56-seater. In good clean condition throughout, certificate of fitness November, 1962.
EVERAL coaches suitable for workmen and mobile shops at very reasonable prices.

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INGS ROAD, WAKEFIELD

IEW 1951 BEDFORD SB1 diesel (and SB3 petrol),
41-scatter Plaston Embassy, five now available.

IEW 1961 FORD Frader, diesel 41-scatter Plaston

IEW 1961 BEDFORD SB1 diesel (2-speed axle)
41-scatter Harrington Crusader, one now available.

IEW 1961 BEDFORD SB1 diesel 41-scatter Burlingham

Seagolf oil, heater, radio, one only available.

IEW MORRIS J. (petrol crusine) 13-scatter Miribus,

1960 SB EDFORD SB1 diesel 41-scatter Duple Super

Vega, heater, radio, choice of three.

42-Scatter Burlingham

Seagolf, heater, said, choice of three.

43-Scatter Burlingham

Seagolf, heater, said, choice of three.

44-Scatter Duple Super

Vega, heaters, shoice of three.

45-Scatter Burlingham

Seagolf, heater, said, 41-scatter Duple Super

Vega, heaters, shoice of three.

44-Scatter Burlingham

Seagolf, heater, radio.

1955 BEDFORD SB3 petrol 41-scatter Duple Super

Vega, heaters, choice of three.

1956 BEDFORD SB3 petrol 41-scatter Duple Super

Vega, heater, radio.

1957 BEDFORD SB3 petrol 41-scatter Duple Super

Vega, heater, choice two.

1958 Seagolf, heater, radio.

1959 Seagolf, heater, radio.

1951 Seagolf, heater, radio.

1952 Seagolf, heater, radio.

1953 BEDFORD SB3 petrol 41-scatter Duple.

1954 Seagolf, heater, radio.

1955 Seagolf, heater, radio.

1956 Seagolf, heater, radio.

1957 Satter Duple.

2958 Seagolf, heater, radio.

2959 Seagolf, heater, radio.

2950 Seagolf, heater, radio.

2951 Seagolf, heater, radio.

2952 Seagolf, heater, radio.

2953 BEDFORD SB3 petrol 33-scatter Burlingham

2954 Seagolf, heater, radio.

2955 Seagolf, heater, radio.

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2957 Seagolf, heater, radio.

2958 Seagolf, heater, radio.

2959 Seagolf, heater, radio.

2950 Seagolf, heater, radio.

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IMMEDIATE DELIVERY FROM STOCK

DEDFORD SB3 petrol Duple 41-seater Super Vega.
wide. glass roof quarters, heaters, Radiamo
mished pink-grey, Earls Court Show model coach.
DEDFORD SB3 petrol Duple 41-seater Super Vega,
wide. glass poof quarters, heaters, Radiamobile, n
other extras, finished red-cream.
DEDFORD SB8. 359 cu. in. oil engine, Harrin
Febrome SB8. 350 cu. in. oil engine, Harrin
Fermica panels and other extras hited, finished in cr

mmediate delivery.

BEDFORD SBB, 350-cu-in, oil engine, Duple 41-seater
Super ver, at ft, wide glass roof quarters, heaters,
neished red-srey, ex Vaushall Motors' demonstration
model, 3,000 miles only, special offer.

BEDFORD SB1, 300-cu-in, oil engine, 2-speed axie.
Duple 41-seater Super Vega. 8 ft, wide, glass roof
quarters, heaters, radio, many other extras, finished pink
srey.

BEDFORD SB8. 350-cu.-in, oil engine, Plaxton Embassi
L-l-cater, 8 ft. wide, radio, heaters, Formica panels,
other extras fitted, finished blue-grey, glass root quarters,
BEDFORD SB1, 300-cu.-in, oil engine, Plaxton Embassi
di-seater, 8 ft. wide, radio, heaters, glass root
quarters. Formica panels, other extras fitted, finished

DEDFORD SB1, 300-cu.-in, oil engine, Harrington Crusader 41-scater, 8 ft. wide, glass roof, quarters, radio, Formica panels, other extras fitted, finished cream-

BEDFORD SB3, petrol engine, Harrington Crusade 41-sester, 8 ft, wide, glass roof quarters, Radio mobile and public address equipment, heaters, finishe

BEDFORD SB1, 300-cu.-in, oil engine, 2-speed axieBurlinkham Seagull 60 41-seater, 8 ft. wide, radio,
heaters, Formica panels, other extras fitted, finished in
primer, choice of two, ready for Easter.

Belford SB1, 300-cu.-in, oil engine, 2-speed axiequarters, radio, heater, Formica panels, other extrasfitted below the state of the stat

25-27 VAUXHALL BRIDGE ROAD, LONDON, S.W.I

## NEW COACHES FOR IMMEDIATE DELIVERY FOR EASTER, WHITSUN,

A.E.C. Reliance, air brakes, Durle Britannia frontheaters, waimut cating banets, other extras to chasca dissoachwork, two finished cream, one in primer; thoise of
three, ready localized, air brakes. Harrington Cavalier
A.E.C. 41-seater conshwork, usurer links, Formica
panels, heater, other extras fitted, red moquette, in primer,
A.E.C. 41-seater coachwork, Formica panels, heaters,
other extras fitted, red moquette, in primer,
A.E.C. Reliance, air brakes, Plaxing to Cavalier
other extras fitted, red moquette, in primer,
A.E.C. Reliance, air brakes, Plaxing Embassy 41cater concentrations of the primer,
A.E.C. Reliance, air brakes, Plaxing Embassy 41cater concentrations of the primer,
primer, beater, Formica panels, linished two shades grey.

NEW COACHES SUPPLIED ON ALL MAKES OF

PASSENGER VEHICLES. USED COACHES EX-STOCK.

BEDFORD.

1959 SB3 petrol 41-seater Duple Super Vega, red mountile, heaters and other extras fitted, finished grey and red, certificate of fitness 1966.

1957 SB3 petrol 41-seater Burlingham, red moquette, finished bitoy-red, certificate of fitness 1964.

1956 SB3 petrol 41-seater Plaxton, red moquette, finished bito, certificate of fitness 1964.

1956 SB3 petrol 41-seater Duple, Eaton 2-speed certificate of fitness 1981.

1955 SB3 petrol 41-seater Duple, fitness 1981.

1955 SB3 petrol 41-seater Duple, fitness 1981.

1956 SB3 petrol 41-seater Duple, feater, fitted red fitness 1981.

of fitness 1965.

1954 finished blue, certificate of fitness 1964.

1953 SB petrol 38-seater Duple, 2-speed ax's, Formicral SB petrol 35-seater Duple, 2-speed ax's, Formicral SB petrol SB petro

A.E.C. 1958 Reliance, 43-scater Duple, front entrance, radio thirshed metallic blue, immaculate condition, certificate of

1956 Reliance. Duple, central entrance. Al-acater the filtrabethan coachwork, red moquetic, heaters litted, finished grey and red, certificate of threes 1961.

1952 Mark IV. 41-acater Yeates coachwork, red moquetic, finished maroon and cream, certificate

of fitness 1962.

1952 Mark IV. 41-scaler Burlingham, central entrance, marcon-grey, certificate of fitness 1962.

1951 Mark IV. 41-scaler Heaver, glass roof quarters, entrance, certificate of fitness 1962.

1951 green upholatery, finished green, central certificate of fitness 1961.

(Continued in next column)

1949 Mark 111, new Yeates 35-seater coachwork fitted blue, certificate of fitness 1962; choice of three.

1948 Mark III. new Burlingham 37-seater full-from blue, certificate of fitness 1962, red moquette, linished blue, certificate of fitness 1962.

LEYLAND.

CHOICE of several 1947-50 PS1-2 Duple half-cab 35-scaters, suitable for works contractors.

1956 TS1 Duple 41 seater, red moquette. Formics dition, certificate of fitness 1961.

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1956 BEDFORD Plaxion 41-seater super-luxury coach, this machine is definitely unmarked and in new condition throughout and cannot be repeated.

in new condition throughout and cannot be repeated, 22:250

DENNIS diesel-engined Falcon 33-seater following the property of t

5 each. LL the above vehicles carry our three months' guaran tee and are fitted with good, serviceable or nev

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STOCKLAND GARAGE, LTD.,

MARSH HILL, ERDINGTON, BIBRMINGHAM, 23. Phone. Erd 7239 and Erd 2488.

1953 LEYLAND Royal Tiger Burlingham 37-seater, red interior, certificate of 1953 BEDFORD, Duple hody, 35-seater, blue and creum interior, certificate of fitness March,

1952 LEYLAND Royal Tiger Harrington 41-seater, dorsal fin, blue, red interior, certificate of

1752 dorsal me, the finess April, 1962.
1951 LEVLAND Royal Tiger, Yeates body, 41-sester, 1951 blue and cream, red interior, certificate of times 1966; choice of two.
1951 LEVLAND Royal Tiger, Dupic body, 41-sester, 1951 blue and cream, red interior, certificate of the first property o

1966.

1951 LEYLAND Royal Thee Burlingham 37-seater, stress 1965; choice of two.

ALL the above vehicles have been maintained by ourselves since new

ALL the active and the control of th

Used Passenger Vehicles (contd.)

E. J. BAKER AND CO. (DORKING), LTD.

COACH SHOWROOMS AND SERVICE STATION.
FARNHAM TRADING ESTATE,
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WE CAN OFFER DELIVERY OF THE FOLLOWING NEW VEHICLES PAINTED TO INSTRUCTIONS:

1961 Modela BEDFORD SBI diesel, Duple bodios, 1960 S-speed gearboxes, Est price, lusury coach, grey insertor, fawn-brown exceptor, certificate of action march, 1967, Formus sides, air conditioned ion microst, 1967, Formus sides, air conditioned ion microst.

age, £2.500. BEDFORD petrol. Duple 41-seater, glass root garriers, besters, reu interror, maroni-terror, 1995. Aug., COMMER 153 1992. 41-seater, 3-speed garriers, garrier, 3-speed garriers, garrier, 3-speed garrier, garrier, 3-speed garrier, garrier, certificate of thin-se

1959 BEDFORD P.S.V. 11-scater, green-cream exterior, certificate of fitness 1966, choice of

1737 exterior, certificate of fittess 1960, choice of tirree, from £550.
1958 BEDFORD Vegas 37-41-seaters, red interior, for the fitter of the

1953 exterior, very circan, certificate or fitness atten1955 BEDFORD Yeates 36-seater, red interior, fitted heater, certificate of fitness 1965, £1,650, 1955 BEDFORD Flaxion 36-seater, red interior, very cean, certificate of fitness 1965, 18,650, 1955 BEDFORD petrol 35-seaser Duple, fawn interior, very cean, certificate of fitness 1965, £1,650, 1955 BEDFORD yeares 35-seaser body, red interior, certificate of fitness 1965, £1,650, 1955 BEDFORD yeaters 35-seater body, red interior, certificate of fitness 1965, £1,650, 1955 BEDFORD yeaters 35-seater body, red interior, certificate of fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, certificate of fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, certificate of fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, certificate of fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 1955 BEDFORD yeaters 35-seater body, red interior, fitness 1961, £1,475, 19

1953 cream-red extenor, certificate of fitness 1963, 1951 cate of fitness 1963, £550, 1951 cate of fitness 1962, £650, £650, 1951 cate of fitness 1962, £650, £650, 1951 cate of fitness 1962, £650, 1951 cate of fitness 1963, £650, £

1361, E223.
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1961, E342.
1961,

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NEW 1901 BEDFORD diesel 41-seater Super Vega fitted with 5-speed box, red moquette, in primer

1960 BEDFORD diesel 41-scater Super Vega, externs cream-red, certificate of fitness to January

1900 cream-red, certificate of fluces to January.
1957.
1958 BEDFORD diesel 41-seater Super Vega, exterior certificate of fluces to March, 1960.
1959 BEDFORD diesel 41-seater Dupic Super Vega.
1960. REDFORD diesel 41-seater Dupic Super Vega.
1958 BEDFORD petrol 41-seater Super Vega.
1958 BEDFORD diesel 41-seater Super Vega.
1958 BEDFORD petrol 41-seater Super Vega.
1958 BEDFORD petrol 41-seater Super Vega.
1959 BEDFORD petrol 41-seater Super Vega.
1950 BEDFORD petrol 41-seater Super Vega.
1951 BEDFORD petrol 38-seater Super Vega.
1952 BEDFORD petrol 38-seater Super Vega.
1953 Calcitor Index Petrol 41-seater Plakton, exterior blue-ream, certificate of super Vega.
1954 Calcitor Index Petrol 48-seater Super Vega.
1955 Calcitor Index Petrol 48-seater Super Vega.
1954 BEDFORD petrol 38-seater Super Vega.

1964 BEDFORD petrol 38-scater Super Vega.
1954 exterior enam-red, certificate of fitness 1964
1953 BEDFORD 55-scater diesel Duple Super Vega.
1953 EEDFORD 55-scater diesel Duple Super Vega.

1953 BEDFORD diesel 35-seater Super Vega, exterior 1952 blue-ream, certificate of filmes 1952 blue-cream, certificate of filmes 1952, BEDFORD petrol 38-seater Duple Super Vega, red moquette, exterior red-cream, certificate of filmes, April, 1962.

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FOURWAYS GARAGE, ARCLID, NEAR SANDBACH, CHESHIRE. Smallwood 225, 226.

NEW 1961 Burlingham 41-seaters. NEW 1961 Planton 41-seaters. NEW 1961 Duple 41-seaters.

## FINISHED TO YOUR OWN SPECIFICATIONS

960 Model BEDFORD 41-scaler Duple, radio, 959 Thames Plaxton 41-scaler.

959 BEDFORD Plaxton, quarter lights and many 959 BEDFORD Duple 41-seater.

959 BEDFORD Yeates 41-seater, choice of two

958 BEDFORD Planton, choice of two. 958 BEDFORD Planton, quarter lights a extras. BEDFORD Plaxton, quarter lights and many 958 BEDFORD Duple 41-scater.

958 BEDFORD Duple 37-seater.

BEDFORD, Leyland Comet engine, 41-scater Duple, COMMER Plaxton 41-seater,

956 REDFORD Plaston 37-seater.
955 COMMER Plaston 41-seater, armometras.
955 BEDFORD Burlingham 35-seater.
954 LEYLAND Tiser Cub with 41-seater. COMMER Plaxion 41-scater, armrests and

944 BEDFORD Plaxton 38-scater, choice of two.

1954 A.E.C. Duple Reliance 41-scater.
1953 BEDFORD Plaxton 35-scater.
1953 BEDFORD Duple 37-scater.
1952 BEDFORD Plaxton 33-scater.
1951 -52 BEDFORD Duple 33-scater. choice of three.

WE ARE NOW TAKING ORDERS AND FINISHING INSTRUCTIONS FOR EARLY DELIVERY.

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FOURWAYS GARAGE ARCLID, NEAR SANDBACH, CHESHIRE. Smallwood 225, 226.

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# STOCK REDUCING SALE.

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1957 BEDFORD petrol 41-seaters. 22.500.
1957 BEDFORD petrol 41-seaters. 22.500.
1958 BEDFORD petrol 41-seater Duple Super Vega.
1958 BEDFORD petrol 41-seater Duple Super Vega.
1958 red moquette and heaters. recertified at £2.400.
1958 Red petrol 41-seater Duple Super Vega.
1958 red interior, radio and heaters. Eaton 2-speed

DEDFORD petrol 41-scater Duple Super Vega, green interior, green and black exterior, fitted liable extra, recertified, £2.450; choice of two. BEDFORD petrol 41-scater Duple Super Vega, BEDFORD, radio and heaters, £2.023, between the black and the second petrol and heaters, £2.025. 1956 1955

1953 attumn tint moquette, radio and heaters, 1954 the BEPFORD petrol 38-seater Duple, choice of these, 1,640, petrol 35-seater Duple Super Vera, red interior, cream and beige exterior, 11,440, petrol 35-seater Burlingham Seaguill, certificate of fitness April, 1963, 11,359, certificate of fitness April, 1963, 11,359, certificate of fitness April, 1963, 11,359, certificate of several, 1923, choice of several, 1925, choice of several, 1925, and petrol 33-seater Duple and Plaxton, 1964, petrol 34-seater Duple and Plaxton, 1965, petrol 34-seater Burlingham bodies, 1966, petrol 35-seater Burlingham bodies, 1966, petrol 35-seater Duple and Plaxton, 1966, petrol 35-seater Duple, 200-2300, petrol 35-seater Duple, 200-

1951 LEYLAND Royal Tiger 41-seater, red pattern moquette, heaters, £975.

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ALWAYS REPRESENTS GOOD VALUE FOR MONEY. Phone. Dinnington 541 (four lines) by day

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PASSENGER TRANSPORT SPECIALISTS.

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NEW BEDFORD SBI diesel 41-seater Duple, Plaxton of or Burlingham coaches.

NEW FORD The Plaxton of Burlingham coaches.

New COMMER Avenger 41-seater Duple coache, one only only.

ALL available with early delivery and finished to your instructions.

Description of the place of the pl

heaters, etc., £1,450.

1951 BEDFORD petrol 33-seater Duple Vega coach, heaters, new engine, very clean, £850. SPECIAL OFFER:-

1953 BEDFORD petrol 35-seater Burlingham coach, certified 1963, £1,200.

## 50

DIESEL 33-SEATER HALF-CAB AND 29-SEATER PETROL COACHES AT £150-£500, OR AVAILABLE

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FOR SHORT OR LONG PERIODS. PHONE. WOLVERHAMPTON 23212, NIGHTS AND WEEK-ENDS, 3234-7 and 22293,

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## COACHES. FULL FRONTED.

1951 Royal Tiger 9.8-litre underfloor engine, air brakes. Duple Ambassador coachwork, 37 large luxury seats, choice of two, can be inspected by appoint-1952 DAIMLER Freeline, powered Daimler under-inspected by appointment.

## DOUBLE DECK.

HIGHBRIDGE. 1948 A.E.C. Ms. III. 9.6-litre engines, M.C.W. coachof seven, certificate of fitness December, 1961 to 1963,
prices from £325 each.
1942-1944 GUY Arabs, powered 5LW engines, bodies
1942-1944 GUY Arabs, powered 5LW engines, bodies
and February, 1962, respectively, choice of two, £225 each.

## SINGLE DECK.

1948 LEYLAND PSI 7.4-litre oil engine, bus type entrance, coachwork by Northern Coachbuilders, certificate of fitnes 1964, in exceptional clean condition, price

1947 LEYLAND PSI 7.4-litre oil engine, Eastern Caschworks, bus-type bodies seating 35, rear entrance, read the property of the

## SPARE PARTS.

MINISTRY reconditioned A.E.C. 7.7-litre engines, types A.187/sef. GX, complete including clutch, three available.
SECOND-HAND engines, Leyland PS1, A.E.C. 7.7 litre,
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961 Two FORD Yeoman Duples. 1951 Two FORD Yeoman Burlinghams, 1961 Two BEDFORD 300 C.U. Burlingh 1949 A.E.C. 9.6 35-scater Duple. Two BEDFORD 300 C.U. Burlinghams.

958 BEDFORD 41-seater, petrol. EXCHANGES, H.P. etc.

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BIRMINGHAM. 5.

Phone, Midland 1355. NEW 1961 FORD DUPLES. APRIL DELIVERY.

1960 41-seater FORD Burlingham; choice of three

1960 al-scater FORD Buringnam, choice of three periods and public address system immaculate, approximately 12,000 miles, one only.

1960 FORD 41-seater Duple, moulding, quarter lights, red and cream, only 17,000 miles.

1960 BEDFORD SB1, quarter lights, red and cream, immaculate condition.

1958 COMMER 753 41-scater Plaxion, radio, three heaters, BEDFORD Duple 41-scater, quarter lights.

1956 COMMER TS3, fired with 2-speed axie, certificate of heaters, public address system, certificate of three.

1956 BEDFORD petrol 41-scater Duple, new certificate of threes.

1953 axie, certificate of fitness 1965, immaculate condition, available within seven days.

1955 BEDFORD 36-seater, certificate of fitness 1965.
1954 REDFORD 33-seater, armchair-type seats, certificate of fitness 1964.
1953 BEDFORD 35-seater, certificate of fitness 1962.
1953 DAIMLER Freeline, 35-seater Bellhouse body, lbaury seats, certificate of fitness 1965.
1954 REDFORD 28-seater, armchair-type seats, certificate of fitness 1962.
1955 BEDFORD 28-seater, armchair-type seats, certificate of fitness 1964.
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1954 COMMER Harrington, Undernoor radio and heater.
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A.E.C. Reliance, fitted with 41-seater Plaxtor interior and fitted with heaters, glass root quarters tubular racks, top sliding windows, central entrance with A.E.C. Reliance machines, fitted with either Plaston Duple or Burlingham bodies and offering choice of colours and specifications.

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op floor, side domes and many extras, roome of every first of six. June, BEDFORD SBI diesel 41-seater Duple bodies, cream exterior with red interior, many for the six of the si 1960,

with red and grey interior, heaters and top steums undows, certificate to 1967.

1960, June, BEDFORD 41-seater Duple, K-type of the control o

slass roof quarters and tubular rocks. K-isne monidinachoice of June. FORD Thames Traders. 41-seater
Plaxton bodies, to the company to the

1959 BEDFORD SB3, petrol, with Plaxion 41-scales body, finished in ivory with red interior.

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May, COMMER TS3 with Eating 2-speed axie,

1955 flashed in autumn tint with cream and fawn
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(Continued in next column)

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1955 DAIMLER, 37-seater Burlingham Seasull body, inshed in dup grey and red with red interior, 1955 COMMER, 33-seater Plaxton body, Eaton 2-speed axie.

1955 2-A.E.C., 37- and 41-seater Burlingham bodies, 1951 in the part of the panels of the part of the part

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NEW cotton, duck-flax covers, competitive prices Garratis, 20 Broomwater West, Teddington Lock

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SPRVIS recorders, register automatically the exact running and standing times of vehicles.

Every minute of every journey is accounted for clearly on a simple tamper-proof chart.

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BRITAIN'S largest manufacturers of tipping gears and beavy dumper equipment, end- or 3-waw tipping gears and hodies in timber or steel; also conversions, hydraulics for farm equipment, etc. Head office and works: Quebec St. Bolton Phone, Bolton 6223-15 London Depot: 258-264 Goldhawk Rd., W.12. Phone. Shepherde Bush 6262.

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SPENBOROUGH tippers cower hydraulic handserew hands or x-way. We manufacture the most comprehence of the company of the control of the contro

WELFORD ENGINEERING (OLDBURY). LTD. HAINGE ROAD.

TIPTON. ew tipping gears ex stock, most chassis. Agents for thro, Telehoist, Pitot, Anthony, Weston, Autolift. Large ccks of spare pa ts and service pumps always available.

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## MISCELLANEOUS ADVERTISEMENTS

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## E. Gita R.

By order of the Secretary of State for War, WAR DEPARTMENT STORAGE DEPOT, RUDDINGTON

thre miles south of Nottingham on the main Nottingham Loughborough road).

## WALKER, WALTON AND HANSON

tin association with turner. FLETCHER AND ESSEX AND RICHARDSON AND LINNELL). WILL SELL BY AUCTION ON MONDAY AND TUESDAY, MARCH 13 and 14, 1961.

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## 535 VEHICLES AND MOTOR CYCLES

MOBILE WORKSHOPS (FITTED WITH LATHES, DRILLING MACHINES, GENERATING SETS. ETC.). PETROL AND WATER TANKERS 200-800 GAL.. TRAILERS 10 CWT.-1 TON, LOAD CARRIERS 1-7 TONS PETROL AND DIESEL. AUSTIN CHAMPS. MOTOR CYCLES BY B.S.A. AND MAICHLESS, ETC.

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FOR VIEWING DATES AND TIMES SEE PAGE VIII IN THE CATALOGUE.

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Phone. Nottingham 54272 (seven lines). 898-9781

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CATERING-WEST COUNTRY.

PAIGNTON HYDRO HOTEL. The most popular coaching hostefry in Torbay. 100 bedrooms, all modern amenites. Fully licensed. Offer accommodation on the company of the control of the commodation of the company of the control of the control of the coach can be control of the coach can be companied as a coach can be coached to can be coached

## BUSINESSES, PREMISES, OFFICES,

IMITED company, Liverpool area: 32 artic, and rigid vehicles, well established, fully occupied; 110 rons services 90 memory memo

GARAGE, Filling Station, etc., in West Fife.

As going concern on busy trunk road site in W. Fife, property and business of garage, filling stati-business of garage, filling stati-business further particulars may be obtain from:—Malcolm, Jack and Matheson, Solicitors, Walt House East Port, Dunfermline. Phone, Dunferml

TRANSPORT business, established 40 years; 50 tons Bixences, Birmingham, Particulars, 76 Lionel St., Burmingham, 3, 898-116

ESTABLISHED haulage business. 20 tons A licence based Aberdeen (Inverness to the Midlands of England) regular traffic. Licences expire 1965. Box CM984, care of "The Commercial Motor." 898-3

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HAULAGE business. West Midlands, consisting five II 1957-60 multi-wheel long-wheelbase tippers with A licences for peen rall goods, reasonable price.

We have haulage businesses available in most areas and would be pleased to receive your inquiries. Fulled materials of these businesses can be supplied on request, and some bire-purchase available.

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HADFIELD, MANCHESTER, Phone, Glossop 2902-3. AFTER HOURS, 2356.

B USINESS premises for sale comprising three houses y2,00-sq,-ft, workshop, warehouse and office all with vacant possession Multi mile from A1 in North Notts area. Suitable premises for transport or light industry Box CM9711, care of "The Commercial Motor,"

TRANSPORT and haulage contractors business, estalished 1928; three buses and coaches (two stacarriage routes), four contractors business, estacarriage routes), four contractors business, wellequippe garges and workshop, superb modern, residence if preferred. First time in market, price ar
full details; Cooper and Green, F.A.I., Shrewsbury, Pro2095.

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OLD-ESTABLISHED haulage business. Metropolitic Area, 23 tons A licences on eight modern petr and diesel lorries, general goods, 25 miles; reasonab price, Box CM9819, care of "The Commercial Motor.

## Businesses, Premises, Offices, etc., Wanted

WANTED, haulage businesses with special A licences and B licences in any part of the country, or alternatively we are prepared to see your business for a commission as we have numerous identical or our books.

WILDE AND BENNETT, I TD.,

HADFIELD, MANCHESTER, Phone, Glossop 2902-3. AFTER HOURS, 2356.

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MAXIMUM capacity carrying tankers. All types available. Hatter Bros., Grays, Essex. ZZZ-665

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L AND ROVERS, light vans and trucks available on contract bire. Apply for terms.

COMBS COMMERCIAL (GUILDFORD). LTD. Portsmauth Rd., Guildford, Surrey. Phone. Guildford, 898-559.

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FORD 4D AND 6D POWER.

ALL MAKES OF VEHICLES UP TO 7 TONS CAN NOW BE FITTED WITH THE COST-CUTTING FORD 4D AND 6D ENGINES, MEANING:—

LOWER INITIAL COST. MORE M.P.G., CHEAPER MAINTENANCE.

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QUICKS FOR FORDS.

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Phone. Mercury 2345-6.

222-929

LET US QUOTE YOU.

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THORNYCROFT Coles cranes converted with A.E.C. 7 engines, fitted £150 engine extras. Mr. Woodhall South Western Diesels, King Edward St., Exeter. Phone Lacter 50552.

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PAUL CHILDS, LTD.,

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Best market rates—no-claims bonus to 40%. Monthly payments accepted.

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SIK! heavy-duty loading shovel, I-cu.-yd, bucket, 4D engine, registered 1959, £550, W. H. Emmerson, Castle Rd., Castle Gresley, Burton-on-Trent. 898-xA2341

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HARVEY FROST Robot type tyre changer. Newman Industries. Ltd., Yate, Bristol. Phone. Chipping 898-42

## PACKING AND SHIPPING

ROYAL 3066-9. The quickest way of shipping your car anywhere in the world is through.

FARON, LTD., 51-3 Crutched Friars, E.C.3.

898-728

## SITUATIONS VACANT

A M.I.M.I. City and Guilds, A.M.I.Mech.E., etc., on details of exame, and exame, and exame, e

EXPERIENCED bodybuilding setter out inspector required for composite construction in the West London area. Reply to The Cunard Commercial Bodybuilding Co., Abbeydale Rd., Wembley, Middlesex. Phone. Perival 1046.

COMMERCIAL-VEHICLE salesman for all types of Rootes Group products, must have previous commercial experience, generous salary and commission, new car provided, superannuation scheme where apriliable. It Taylor and Co., 135 London Rd., Kingston-upon-Thaunex.

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TO JOIN EXPANDING COMPANY

FIRST-CLASS DESIGN DRAUGHTSMAN PREFERABLY WITH SOME EXPERIENCE IN HEAVY GOODS VEHICLE OR ALLIED FIELDS.

Only men with ability to handle complete design projects need apply.

Excellent condition. Housing available. Salary commen-surate with ability

Write to THE CHIEF ENGINEER,

YORK TRAILER CO. LTD.

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CORBY, NORTHANTS.

V BURLINGHAM LTD., a Duple Group company, with to appoint a Chief Engineer Designate, Responsibility covers Design. Development, Prototype and Inspection Departments. Some years design and development and/or A M.J. Meche. Some years design and development experience on light structures, not necessarily vehicles. Age preferred 30-40. Excellent opportunity for right man. Apply in writing, Vicarage Lane, Bischen, 2007-787.

REPRESENTATIVE wanted for Northern England and Scotland, knowledge of vehicle operation and traffic necessary. Box CM982, care of "The Commercial 899-9800

WANTED. Manager, or under-manager for heavy haulage company, state salary and experience. Box CM983, care of "The Commercial Motor."

MANAGER required for medium but expanding company N W. London, engaged household and office removals, warehousing, shipping, distribution and general haulage. Applicant must be fully experienced and capable of running concern without supervision and of obtaining business at the highest level. Accommodation may be available. Commencing shary 2900-61,000 plus share of profits. Box CM987, care of "The Commercial Moton"

MANAGER required for Bedford Main Dealers, to take including new depot in Home Counties. All facilities including new and buseful for the counties of the counties of the counties of the counties. Box CM976, care of The Commercial Motor "The Commercial Motor".

Miscellaneous Advertisements (contd.)

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A LEADING BRITISH COMPANY OF MOTOR DISTRIBUTORS

COMMONWEALTH WEST AFRICA

HAS A VACANCY IN A MAIN CENTRE FOR A

## VEHICLE BODY BUILDER

EXPERIENCED IN MODERN METHODS OF CONSTRUCTION OF ALL POPULAR TYPES.

Applicants should have served a practical recognized apprenticeship and have at least seven years subsequent experience and possess qualities of initiative, energy and ability to lead and train African staff. Challenging opportunity for permanent and progressive career for able and vigorous candidate aged between 28 and 37 years. Oversets salary and allowances £1,500 per annum or according to qualifications and experience with subsequent increments based on ability.

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Tours of duty in Africa approximately 21 months followed by substantial home leave on full pay

Apply giving full particulars to

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CARE OF "THE COMMERCIAL MOTOR."

ENERAL Manager (Transport) with extensive knowledge of large vehicle fleet administration required by
a National company at 8s-London headquarters, the postinvolves complete control of over 600 C-licened vehicles
based throughout the country and calls for a man aged
35-45, whose drive ability and commercial experience
on this scale make him capable of caroling a salary of
tion embracing mechanical, bodywork and regainting dock
schedules preparation of monthly transport returns. Fuel
and tyre records, road accident claims, responsibilities do
not include day to day operation of vehicles or control
of drivers, technical qualifications are not important but
requirements outlined above should apply. Applicants
should send in confidence full personal information
information.
information information are of "The Commercial Motor."

898-41

BRIGHTON Main Ford Deslers have a vacancy for a opportunity for a keen man with a propersistic and expanding company. Apply in writing: Endeavour Molor Co. Ltd., 90-92 Preston Rd. Brighton. 6. Sussex. 899-9802.

Manchester Corporation Transport

DEPARTMENT

REQUIRE RATEFIXER

IN THE ENGINEERING SECTION.

alary £825/£880 per annum for a 42-hour week. E-tee of work on heavy vehicles desirable. Detai-duries and application forms can be obtained fro

THE GENERAL MANAGER.

55 PICCADILLY

MANCHESTER. 1.

to whom applications should be returned not later than Friday, March 10, 1961. 898-68

AN enthusiastic Salesman is required by Main Ford bealers, to be accepted the applicant must be able to prove a successful selling circer, with particular interest in pioneering. Apply to General Sales Manager, K.T. (Dertrody, Ltd., 17-173 The Benet. Dartford, 598-53

ARTHUR E. GOULD, LTD., Ford Main Dealers, Mercury House, 30 Alfred Place, London, W.C.I., require experienced new car and commercial vehicle Salesmen with energy and the urge to succeed; good salary with commission paid, recently revised; non-contributory pension scheme available; permanent position with excellent prospects in our large organization. Apply in writing with full details or call to Sales Director,

HAULAGE contractors theavy and normal) returned two first-class traffic clerks for their Manchester London clearing houses; excellent convocationally for abulity and trade connections. Write gating full do of experience, etc., to Box CM981, care of "The Control of the Control

COMMER Main Dealers in West Sussex have vacancy for an experienced commercial vehicle salesman. Good salery and commission rates to person of proved ability, also pension scheme. Write giving full particulars of experience to Box CM9716, care of "The Commercial Motor."

LEICESTER, Nr., commercial-vehicle sales expert required to open new depot. State salary. Rox CM9811, care of "The Commercial Motor."

March 3, 1961-THE COMMERCIAL MOTOR 93

## Miscellaneous Advertisements (contc.)

MIDLANDS ELECTRICITY BOARD.

STUDENT APPRENTICE

AUTOMOBILE ENGINEER.

APPLICATIONS ARE INVITED FOR ENTRY TO A STUDENT APPRENTICESHIP IN AUTOMOBILE ENGINEERING COMMENCING IN SEPTEMBER.

The Board's large transport fleet includes vehicles of all types and the successful candidate will undertake training in appears a surrounder to the surrounder the GC.E. "A" level examinations in a minimum of English chemistry and one other subject. During his apprentise-ship, the successful candidate will be expected to obtain a diploma in echnology (engineering) which will enable him to achieve profosonola status as an automobile enaiting to undertake six months' full-time technical education at an approved college of technology for each of four successive years.

The apprenticeship will be based in the Birmingham locality but the apprentice will be expected to underradrating in any part of the Board's area as may be required.

Applications, in cardidate's own handwriting, stating see

Applications, in candidate's own handwriting, stating are and full particulars of education, should be forwarded within three weeks and endorsed

"STUDENT APPRENTICE AUTOMOBILE ENGINEER"

MIDLANDS ELECTRICITY BOARD.

MUCKLOW HILL, HALESOWEN, NR. BIRMINGHAM.

F. W. CATER

EXPERIENCED fitter required to maintain small fleet of petrol and diesel coaches, must be capable of taking responsibility, organizing outside repair facilities and seneral running of garage. Write, stating experience, age and salary required to Empress Motors. Ltd., 240 Cambridge Heath Rd., E.2.

FOREMAN wanted for small modern bodyshop specializing in commercial and P.S.V. repairs, good scope to live, energetic man with zood records. Apply Box CM9511, care of "The Commercial Motor", 804-567

A SSISTANT works manager-receptionist required for motor trade experience in customer relations and from the trade experience in customer relations and tion. West Middlesex area, Write Box CM964, care of "The Commercial Motor."

OUTSTANDING commercial-vehicle distributors require test first-class representatives for the London area. Excellent first-class representatives for the London area. To vehicle the commercial first first-class representation of the Manager, Serward and Ltd., Morris Commercial House. Ouecusbury Remelley. Alperton 2121.

#### SITUATIONS WANTED

TRANSPORT Engineer-Manager, A.M.I.R.T.E., A.M.I.T.A., seeks suitable position London, Kent, overseas, 29 years, experience, age 42. Boc CM9814, care of "The Commercial Motor," 899-8234.

#### STORAGE AND DISTRIBUTION

LENHAM STORAGE CO., LTD., near Maidstone consists of militor or f. for storage and duly distribution of the consists of the co

#### TENDERS

TENDERS are invited for the construction of a travel-ing library. Conditions, specification and drawings may be obtained from the Clerk of Bedfordshire County to the Condition of Bedfordshire County and the Condition of Bedfordshire County delivered not later (tun Monday, April 27, 106), 898-23.

## CHELMSFORD RURAL DISTRICT COUNCIL.

TENLERS ARE INVITED FOR THE SUPPLY OF NEW VEHICLES FOR DELIVERY BY JUNE 1. 961. AS FOLLOWS:

MORRIS MINI VAN WITH PASSENGER SEAT, FINISHED IN DARK GREEN.

1)-TON MORRIS FG. 114-IN.-WHEELBASE DROP-SIDE LORRY. FINISHED IN DARK GREEN. COMPLETE WITH TILT AND PASSENGER SEAT.

The Council have for disposal a 30-cwt. Bedford drop-side lorey, first registered February 7, 1949, No. OEV 998, which may be inspected by appointment at the Baddew Road Depost, and a credit should be allowed in the tender for taking this vehicle in part exchange.

Tendors should be submitted to the understaned in plain envelopes endorsed "Motor Vehicles" not later than 10 s.m. on Murch 20, 1961.

C. A. BOHANNON, ESQ.

A47

#### Miscellaneous Advertisements (contd.)

THE DEARNE LIRBAN DISTRICT COUNCIL.

TENDERS ARE INVITED FOR THE SUPPLY OF ONE

## NEW KARRIER GAMECOCK

COMBINED GULLY/CESSPOOL EMPTIER, FITTED WITH DIESEL ENGINE, IN EXCHANGE FOR PRESENT GULLY EMPTIER.

Details and forms of tender can be obtained from the Engineer and Surveyor, J. K. Smithies, Esq., A.M.I.Mun,E., A.M.J.H.E., and should be returned by Monday, March 27, 1961, to the undersigned.

C. BISHOP.

Clerk of the Council.

Council Offices.
Bolton-on-Dearne,
March 3, 1961.

898-43

## NOTTINGHAMSHIRE COUNTY COUNCIL.

TENDERS ARE INVITED FOR THE SUPPLY OF

## AMBULANCE SERVICE VEHICLES

ON BEDFORD CHASSIS WITH LOMAS BODIES. NINE SIMILAR VEHICLES BEING OFFERED IN PART EXCHANGE.

Tenderers may submit tenders for any or all of the vehicles to be supplied and tenders on a non-part exchange basis will be considered.

Further particulars and Tender documents may be obtained from the County Medical Officet, Shire Hall. Nottingham. Completed tenders in the envelopes to be supplied should be received by me not later than 10 a.m. on Monday March 27, 1961.

A. R. DAVIS.

Clerk of the County Conneil. 898-515

#### BOOKS AND PUBLICATIONS

M AINTENANCE RECORD (Charnwood Series No. 99). A life history of each vehicle with tyre records, petrol and oil consumption, 4s. 6d. post free.

DESEL oil stock books. Cost books, etc. Send for descriptive list.

CHARNWOOD PUBLISHING CO., LTD., Coalville.

THE OPERATORS' GUIDE TO THE TRANSPORT ACT, 1953. Explains the process of denationalization road transport operators. 22 pages, 1s, 6d, net, from booksellers, or 1s, 8d, by post from the publishers. Temple Press Limited, Bowling Green Lane, London, E.C.1, 222

WHO'S WHO IN THE MOTOR INDUSTRY (Third Motor and Commercial Vehicle industries and a comprehensive guide to constituent companies in the first Motor and Commercial Vehicle industries and a comprehensive guide to constituent companies in the two industries and the companies in the two industries and the companies in the two industries with the companies of the companies in the two industries with the companies of the companies o

ONDON WHARVES AND DOCKS (2nd Edition). A guide to the wharves and docks lining the river from the control of the control of the wharves and docks lining the river from the wharves, together with 17 (all-page maps showing their behavior). The control of the whole of the control of the contro

"FARM MECHANIZATION" DIRECTORY, 1988-59.
Compiled by the staff of "Farm Mechanization."
Extablished as the complete guide for farm machinery importers, dealers and manufacturers throughout the world. Sections are devoted to tractors and their specifications, implements, test reports and manufacturers' names and addresses. Illustrated. 462 pages. 30s. net from booksellers, or 31s, 40, by post from the publishers. Temple Press Limited. Bowling Green Lane, London, E.C.1,

"MODERN CLEANSING APPLIANCES," by Ast with information on its practices and appliances both Great Britain and abroad. Hustrated, 160 pages, 12s. net from booksellers, or 13s. 4d. by post from publishers. Temple Press Limited, Bowling Green La London, E.C.1,

#### Books and Publications (contd.)

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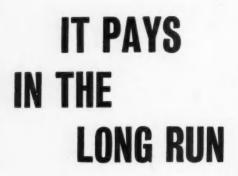
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